



Translation

(1)	,	Type Examination Certificate
(2)		- Directive 94/9/EC - Equipment and protective systems intended for use in potentially explosive atmospheres
(3)		BVS 06 ATEX E 093 X
(4)	Equipment:	Sensor type CMF*** *******V****, CNG050******V****, F*********, H**********, R***************
(5)	Manufacturer:	Micro Motion, Inc.
(6)	Anschrift:	Boulder, Co. 80301, USA
(7)	The design and corto this type examin	nstruction of this equipment and any acceptable variation thereto are specified in the schedule ation certificate.
(8)	has been found to equipment intended	ody of EXAM BBG Prüf- und Zertifizier GmbH certifies that this equipment (or component) comply with the Essential Health and Safety Requirements relating to the design of Category 3 d for use in potentially explosive atmospheres, given in Annex II to the Directive. In the design of Category 3 d for use in potentially explosive atmospheres, given in Annex II to the Directive.
(9)	The Essential Heal EN 60079-0:2004 IEC 60079-15:200 EN 50281-1-1:199	· · · · · · · · · · · · · · · · · · ·
(10)		s placed after the certificate number, it indicates that the equipment is subject to special use specified in the schedule to this certificate.
(11)	accordance to Dire	ats of the Directive apply to the manufacturing process and supply of this equipment. These are
(12)	The marking of the	equipment shall include the following:
	(PV)	Ex nA II T1-T5 P65 T* °C

EXAM BBG Prüf- und Zertifizier GmbH

Bochum, dated 02. August 2006

Signed: Dr. Jockers	Signed: Dr.Eickhoff
Certification body	Special services unit



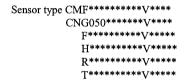
(13) Appendix to

Type Examination Certificate

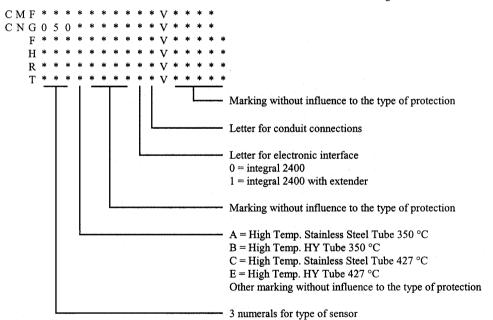
BVS 06 ATEX E 093 X

(15) 15.1 Subject and type

(14)



Instead of the *** letters and numerals will be inserted which characterize the following modifications:



15.2 Description

The flow sensor in combination with a transmitter is used for flow measurement.

The flow sensor, which consists of magnetically excited oscillating tubes, contains as electrical components coils, resistors, temperature sensors and terminals and connectors.

The sensor is designed for use in connection with a suitable transmitter, e. g. type 24******L**** in accordance with BVS 05 E 116 X; only the assembly of the sensor and the transmitter guarantees the necessary degrees of protection.

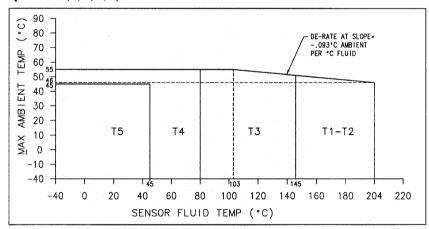


15.3 Par	rameters example of the second			
15.3.1	Drive circuit (pin connections 7-8)			
	Voltage	DC	30	V
	Current		84	mA
15.3.2	Pick-Off circuit (pin connections 3-4)			
	Voltage	DC	30	V
	Current		25	mA
15.3.3	Temperature circuit (pin connections 1, 2 and 9)			
	Voltage	DC	30	V
	Current		25	mA

15.3.4 Thermal data Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depend on the temperature of the medium taking into account the maximum operating temperature of the sensor and are shown in the following graphs:

15.3.4.1 Type CMF010*******V****, CMF025*******V****, CMF050*********, CMF100**********, CMF200*********, CMF300********* with integral 2400, except CMF**(A, B, C, E)*****V****



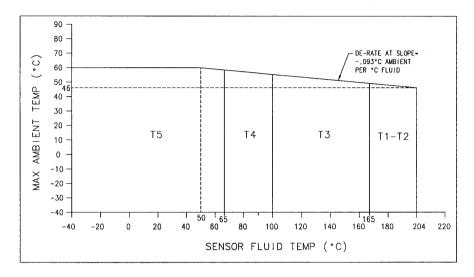
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 254 °C.

Ambient temperature range

Ta -40 °C up to +55 °C



4.4.2 Type CMF400****** with integral 2400

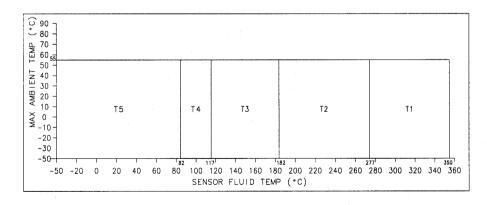


Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 234 °C.

Ambient temperature range

Ta -40 °C up to +55 °C

4.4.3 Type CMF200(A, B)******V****, CMF300(A, B)*******, CMF400(A, B)******V**** with integral 2400



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

Ambient temperature range

Ta

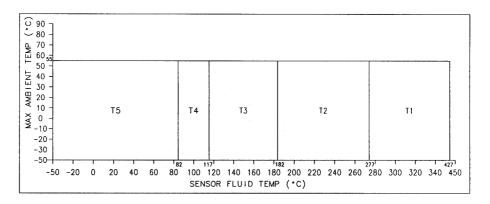
-50 °C up to +55 °C



The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

4.4.4 Type CMF200(C, E)******, CMF300(C, E)******, CMF400(C, E)****** with integral 2400



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 440 °C.

Ambient temperature range

Ta

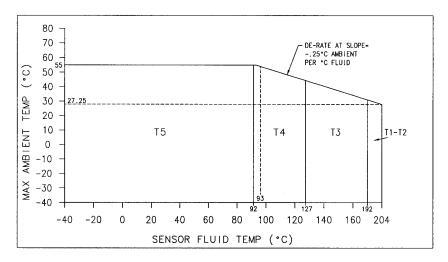
-50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



15.3.4.5 Type F025********V*****, F050********V*****, H025*******, H050******V*****, R025*******, R050*******V***** and CNG050******V***** with integral 2400, **except** F***(A, B, C, E)*****V*****

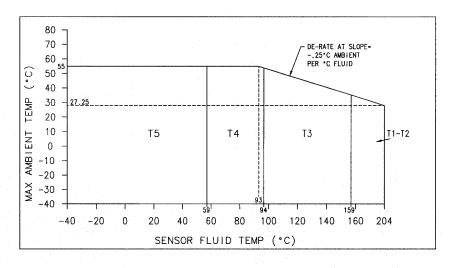


Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

Ambient temperature range

Ta -40 °C up to +55 °C

15.3.4.6 Type F100*******V*****, H100*******, R100******V***** with integral 2400, except F100(A, B, C, E)*****V*****





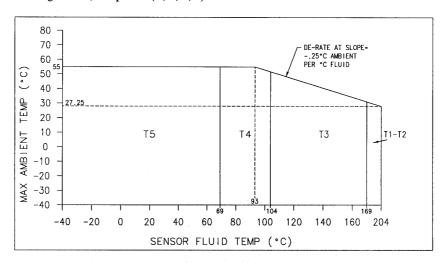
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 240 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

15.3.4.7 Type F200*******V****, H200******V****, R200******V***** with integral 2400, **except** F200(A, B, C, E)*****V****



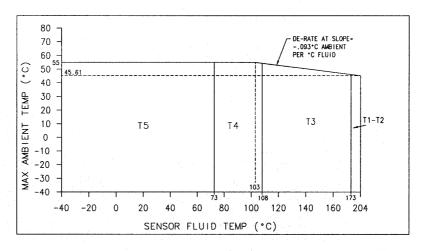
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 230 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

15.3.4.8 Type F300*******V****, H300******V*****, with integral 2400, except F200(A, B, C, E)*****V****





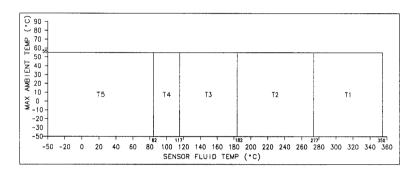
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 226 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

15.3.4.9 Type F025(A, B)*****V****, F050(A, B)******, F100(A, B)******V****, F300(A, B)****** with integral 2400



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

Ambient temperature range

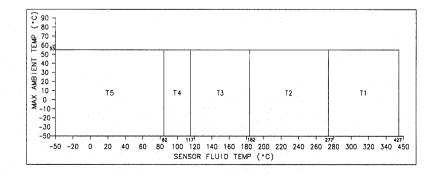
Та

-50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.10 Type F025(C, E)******V*****, F050(C, E)*******, F100(C, E)******V*****, F300(C, E)****** with integral 2400





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 440 °C.

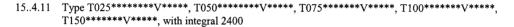
Ambient temperature range

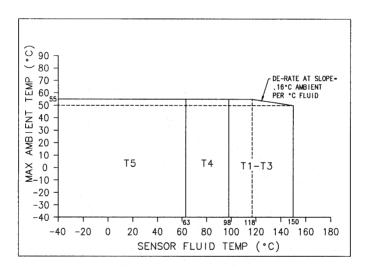
Ta

-50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: to T1: 182 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

(16) <u>Test report</u> BVS PP 06.2082 EG, dated 02.08.2006



(17) Special condition for safe use

The sensor is designed for use in connection with a suitable transmitter, e. g. type 24******L**** in accordance with BVS 05 E 116 X; only the assemblage of the sensor and the transmitter guarantees the necessary degrees of protection.

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 02.08.2006 BVS-Schu/Mi A 20050713

EXAM BBG Prüf- und Zertifizier GmbH

Special services init



Zertifizierungsstelle

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Telefon 0234 - 3696-105 Telefax 0234 - 3696-110

EXAM · Postfach 10 27 48 · 44727 Bochum

Emerson Process Management Flow BV Mr. Henk van Holland Neonstraat 1 6718 WX Ede Nederland

Ihre Nachricht 17.01.2007

Ihr Zeichen Henk van Holland Unser Zeichen BVS-Hk/Mi A 20070039 Fax: (0234) 3696 110 Durchwahl Tel.: (0234) 3696 105

e-mail Hauke@bg-exam.de Datum 24.01.2007

Ladies and Gentlemen,

we added the Revision Report as of 24.01.2007 to the Test and Assessment Report BVS PP 06.2082 EG.

We confirm, that the Certificate

BVS 06 ATEX E 093 X as of 02.08.2006

is still valid.

Kind regards

BBG Prüf- und Zertifizier GmbH

Ma July (Dr. Jockers)

i.V. Francie

Enclosures: Revision Report

EXAM BBG Prüf- und Zertifizier **GmbH**

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Sitz: Bochum Amtsgericht Bochum HRB 5357

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Translation

1st Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the Type Examination Certificate BVS 06 ATEX E 093 X

Equipment:

Sensor type CMF*** ******V****, CNG050******V****,

F******, H*******, R******* and

T********V*****

Manufacturer:

Micro Motion, Inc.

Address:

Boulder, Co. 80301, USA

Description

The sensor has been assessed in acc. with the standards EN 62141-** and new versions

type CMF800******V**** and type CMFCH3******V****

are possible.

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-15:2005 Type of protection 'n'
EN 61241-0:2006 General requirements
EN 61241-1:2004 Protection by enclosures 'tD'

The marking of the equipment shall include the following:



Special conditions for safe use Not changed



Modified parameters

Type CMF800*****(0, 1)*V**** and CMFHC3*****(0, 1)*V****, including type CMF800(A,B,C,E)****(0, 1)*V**** and CMFHC3(A,B,C,E)****(0, 1)*V****.

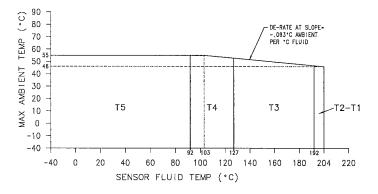
1.1	Drive circuit (pin connections 7-8) Voltage Current	DC	30 84	V mA
1.2	Pick-Off circuit (pin connections 3-4) Voltage Current	DC	30 25	V mA
1.3	Temperature circuit (pin connections 1, 2 and 9) Voltage Current	DC	30 25	V mA

2 Thermal data

Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depend on the temperature of the medium taking into account the maximum operating temperature of the sensor and are shown in the following graphs:

2.1 Types CMF800*****(0,1)*V**** and CMFHC3*****(0,1)*V**** with integral 2400



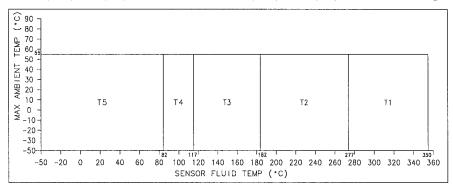
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

Ambient temperature range

Ta -40 °C up to +55 °C



2.2 Type CMF800(A,B)****(0,1)*V**** and CMFHC3(A,B)****(0,1)*V**** with integral 2400



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

Ambient temperature range

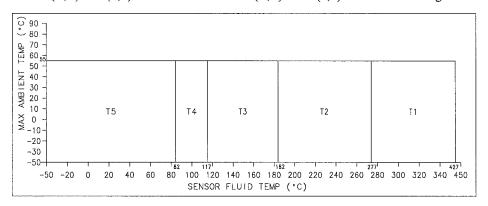
Ta -50 °C

-50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

2.3 Type CMF800(C,E)****(0,1)*V**** and CMFHC3(C,E)*****(0,1)*V**** with integral 2400



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 440 °C.

Ambient temperature range

Ta

-50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



Test and assessment report BVS PP 06.2082 EG as of 13.11.2007

DEKRA EXAM GmbH

Bochum, dated 13. November 2007

Signed: Dr. Jockers	Signed: Dr. Eickhoff
Certification body	Special services unit
	translation from the German original. rman wording shall be valid and binding.
44809 Bochum, 13.11.2007	
BVS-Schu/Mi A 20070569	

Special services unit

DEKRA EXAM GmbH





Translation

2nd Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the Type Examination Certificate BVS 06 ATEX E 093 X

Equipment: Sensor type CMF*** *******, CNG050*******V****,

F******, H******, R****** and

T*********V*****

Manufacturer:

Micro Motion, Inc.

Address:

Boulder, Co. 80301, USA

Description

The sensor can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

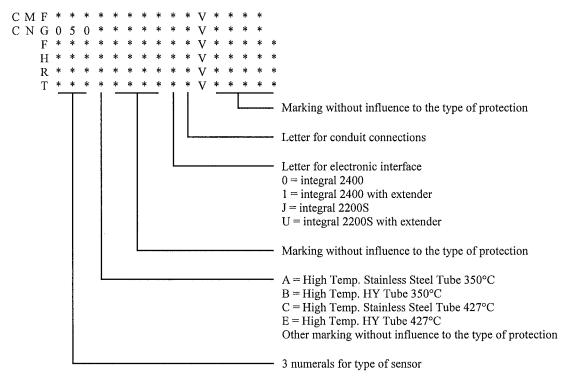
Versions type CMF800******V**** have been removed.

New versions type CMFHC2****** are possible.

New versions with integral 2200S*****L**** (BVS PP 08.2150 EG) are possible:

Type *********(J,U)*V*****

Instead of the *** letters and numerals will be inserted which characterize modifications.





The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-15:2005 Type of protection 'n'
EN 61241-0:2006 General requirements
EN 61241-1:2004 Protection by enclosures 'tD'

The marking of the equipment shall include the following:



II 3G Ex nA II T1-T4/T5 II 3D Ex tD A22 IP65 T* °C

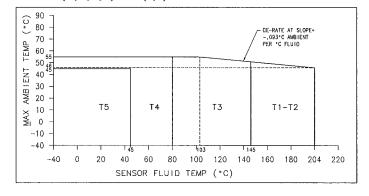
Parameters

1	Drive circuit (pin connections 7-8) Voltage Current	DC	30 84	V mA
2	Pick-Off circuit (pin connections 3-4) Voltage Current	DC	30 25	V mA
3	Temperature circuit (pin connections 1, 2 and 9) Voltage Current	DC	30 25	V mA

Thermal data type CMF*******V****
Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depend on the temperature of the medium taking into account the maximum operating temperature of the sensor and are shown in the following graphs:

4.1 Type CMF010*****(0,1)*V****, CMF025*****(0,1)*V****, CMF050*****(0,1)*V****, CMF100***(0,1)*V****, CMF200*****(0,1)*V****, CMF300*****(0,1)*V**** with integral 2400, except CMF***(A,B,C,E)****(0,1)*V****





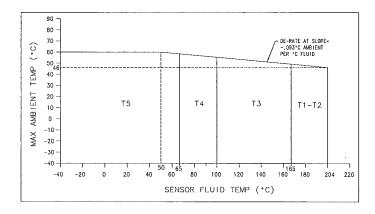
Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 254 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

4.2 Type CMF400*****(0,1)*V**** with integral 2400



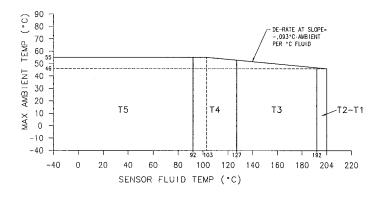
Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 234 °C.

Ambient temperature range

Ta

-40 °C up to +60 °C

4.3 Types CMFHC2*****(0,1)*V**** and CMFHC3*****(0,1)*V**** with integral 2400



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

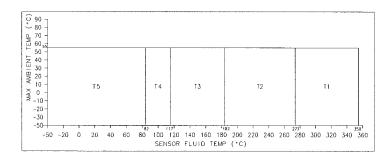
Ambient temperature range

Ta

-40 °C up to +55 °C



4.4 Type CMF200(A,B)****(0,1)*V****, CMF300(A,B)****(0,1)*V****, CMF400(A,B)****(0,1)*V****, CMFHC2(A,B)****(0,1)*V**** and CMFHC3(A,B)****(0,1)*V**** with integral 2400



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

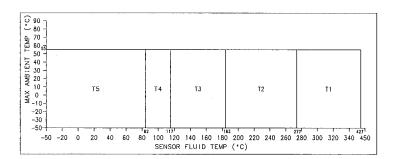
Ambient temperature range

Ta -50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

4.5 Type CMF200(C,E)****(0,1)*V****, CMF300(C,E)****(0,1)*V****, CMF400(C,E)****(0,1)*V**** CMFHC2(C,E)****(0,1)*V**** and CMFHC3(C,E)****(0,1)*V**** with integral 2400



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 $^{\circ}$ C, T4: 130 $^{\circ}$ C, T3: 195 $^{\circ}$ C, T2: 290 $^{\circ}$ C and T1: 440 $^{\circ}$ C.

Ambient temperature range

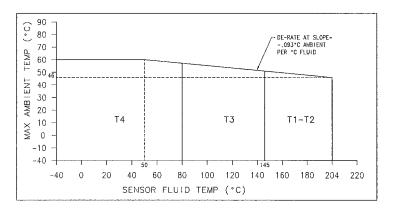
Ta -50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



4.6 Type CMF010*****(J,U)*V****, CMF025*****(J,U)*V****, CMF050*****(J,U)*V****, CMF100***(J,U)*V****, CMF200*****(J,U)*V****, CMF300*****(J,U)*V**** with integral 2200S, except CMF***(A,B,C,E)****(J,U)*V****



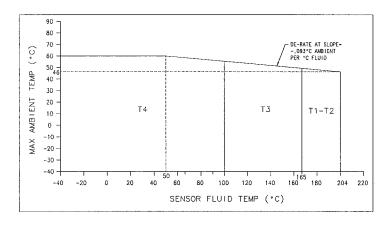
Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 254 °C.

Ambient temperature range

Ta

-40 °C up to +60 °C

4.7 Type CMF400******(J,U)*V****, with integral 2200S



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 234 °C.

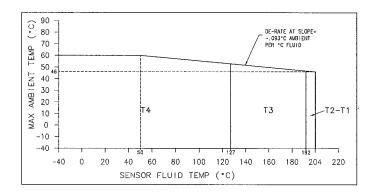
Ambient temperature range

Ta

-40 °C up to +60 °C



4.8 Types CMFHC2****(J,U)*V**** and CMFHC3*****(J,U)*V**** with integral 2200S

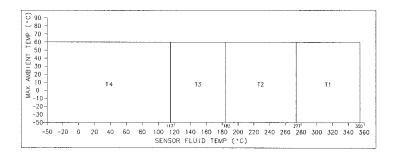


Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

Ambient temperature range

Ta -40 °C up to +60 °C

4.9 Type CMF200(A,B)****(J,U)*V****, CMF300(A,B)****(J,U)*V****, CMF400(A,B)****(J,U)*V****, CMFHC2(A,B)****(J,U)*V**** and CMFHC3(A,B)****(J,U)*V**** with integral 2200S



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

Ambient temperature range

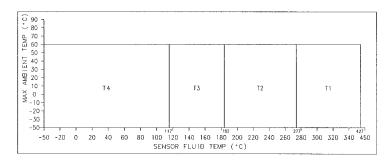
Ta -50 °C up to +60 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



4.10 Type CMF200(C,E)****(J,U)*V****, CMF300(C,E)****(J,U)*V****, CMF400(C,E)****(J,U)*V**** CMFHC2(C,E)****(J,U)*V**** and CMFHC3(C,E)****(J,U)*V**** with integral 2200S



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 440 °C.

Ambient temperature range

Ta -50 °C up to +60 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

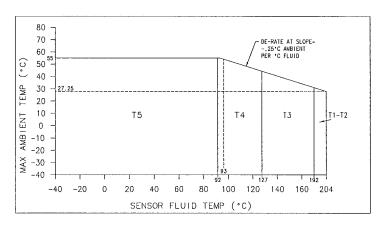
Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Thermal data type F*********, H********, R******, R*****, CNG050****V****

Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depends on the temperature of the medium taking into account the maximum operating temperature of the sensor and is shown in the following graphs:

5.1 Type $F025******(0,1)*V*****, F050******(0,1)*V*****, H025*****(0,1)*V*****, H050*****(0,1)*V*****, R025*****(0,1)*V*****, R050*****(0,1)*V***** and CNG050***(0,1)*V**** with integral 2400, except <math>F^***(A,B,C,E)****(0,1)*V*****$



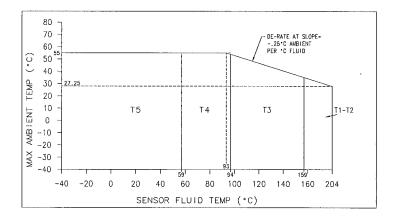


Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

Ambient temperature range

Ta -40 °C up to +55 °C

5.2 Type F100******(0,1)*V*****, H100*****(0,1)*V*****, R100*****(0,1)*V***** with integral 2400, **except** F100(A,B,C,E)****(0,1)*V*****

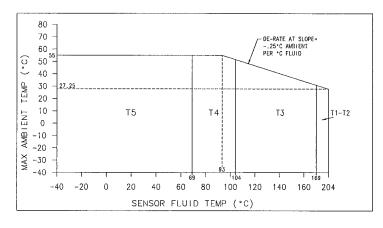


Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 240 °C.

Ambient temperature range

Ta -40 °C up to +55 °C

5.3 Type F200*****(0,1)*V*****, H200*****(0,1)*V*****, R200*****(0,1)*V***** with integral 2400, **except** F200(A,B,C,E)****(0,1)*V*****



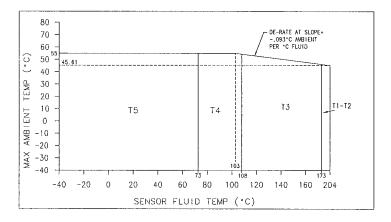
Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 230 °C.

Ambient temperature range

Ta -40 °C up to +55 °C



5.4 Type F300*****(0,1)*V*****, H300*****(0,1)*V*****, with integral 2400, except F300(A,B,C,E)****(0,1)*V*****

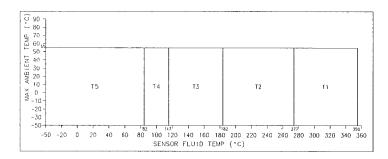


Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 226 °C.

Ambient temperature range

Ta -40 °C up to +55 °C

5.5 Type F025(A,B)****(0,1)*V*****, F050(A,B)****(0,1)*V*****, F100(A,B)****(0,1)*V*****, F300(A,B)****(0,1)*V***** with integral 2400



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

Ambient temperature range

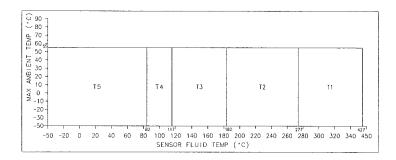
Ta -50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



5.6 Type $F025(C,E)^{****}(0,1)^{*}V^{*****}$, $F050(C,E)^{****}(0,1)^{*}V^{*****}$, $F100(C,E)^{****}(0,1)^{*}V^{*****}$, $F300(C,E)^{****}(0,1)^{*}V^{*****}$ with integral 2400



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 440 °C.

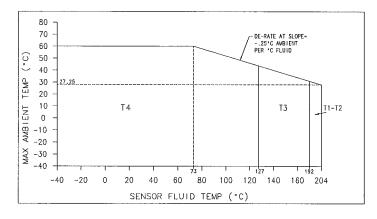
Ambient temperature range

Ta -50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. I meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

5.7 Type F025******(J,U)*V*****, F050******(J,U)*V*****, H025*****(J,U)*V*****, H050*****(J,U)*V*****, R025*****(J,U)*V***** and CNG050***(J,U)*V**** with integral 2200S, except F***(A,B,C,E)****(J,U)*V*****



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

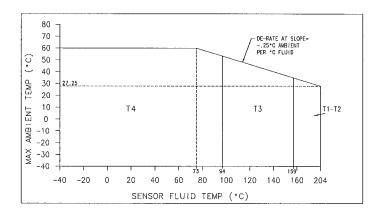
Ambient temperature range

Ta

-40 °C up to +60 °C



5.8 Type F100******(J,U)*V*****, H100*****(J,U)*V*****, R100*****(J,U)*V***** with integral 2200S, except F100(A,B,C,E)****(J,U)*V*****



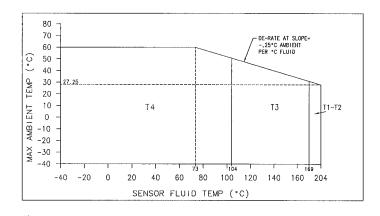
Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 240 °C.

Ambient temperature range

Та

-40 °C up to +60 °C

5.9 Type F200*****(J,U)*V*****, H200*****(J,U)*V*****, R200****(J,U)*V***** with integral 2200S, **except** F200(A,B,C,E)****(J,U)*V*****



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 230 °C.

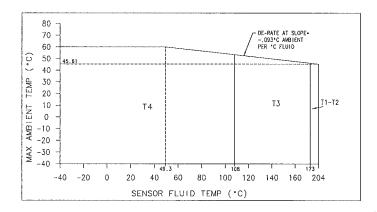
Ambient temperature range

Та

-40 °C up to +60 °C



5.10 Type F300******(J,U)*V*****, H300*****(J,U)*V*****, with integral 2200S, except F300(A,B,C,E)****(J,U)*V*****

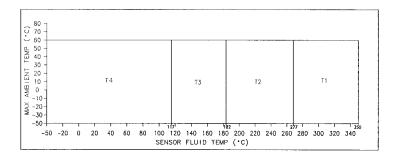


Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: to T1: 226 °C.

Ambient temperature range

Ta -40 °C up to +60 °C

5.11 Type F025(A,B)****(J,U)*V*****, F050(A,B)****(J,U)*V*****, F100(A,B)****(J,U)*V*****, F300(A,B)****(J,U)*V***** with integral 2200S



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 363 °C.

Ambient temperature range

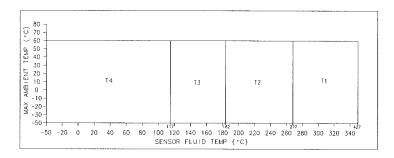
Ta -50 °C up to +60 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



5.12 Type $F025(C,E)^{****}(J,U)^*V^{*****}$, $F050(C,E)^{****}(J,U)^*V^{*****}$, $F100(C,E)^{****}(J,U)^*V^{*****}$, $F300(C,E)^{****}(J,U)^*V^{*****}$ with integral 2200S



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: 195 °C, T2: 290 °C and T1: 440 °C.

Ambient temperature range

Ta -50 °C up to +60 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

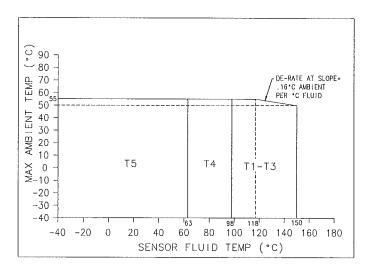
Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60°C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Thermal data type T*******V*****

Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depends on the temperature of the medium taking into account the maximum operating temperature of the sensor and is shown in the following graphs:

6.1 Type $T025^{*****}(0,1)^*V^{*****}$, $T050^{*****}(0,1)^*V^{*****}$, $T100^{*****}(0,1)^*V^{*****}$, $T150^{*****}(0,1)^*V^{*****}$, with integral 2400





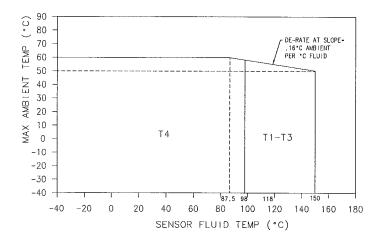
Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: to T1: 182 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

6.2 Type T025*****(J,U)*V*****, T050*****(J,U)*V*****, T075*****(J,U)*V*****, T100*****(J,U)*V*****, T150*****(J,U)*V*****, with integral 2200S



Note: Use the graph above to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T4: 130 °C, T3: to T1: 182 °C.

Ambient temperature range

Ta

-40 °C up to +60 °C

Special conditions for safe use

The sensor is designed for use in connection with a suitable transmitter, e. g. type 24******L**** in accordance with BVS 05 E 116 X resp. type 2200S*****L**** in accordance with BVS 08 ATEX E 112 X; only the assemblage of the sensor and the transmitter guarantees the necessary degrees of protection.

Test and assessment report BVS PP 06.2082 EG as of 13.11.2008

DEKRA EXAM GmbH

Bochum, dated 13. November 2008

Signed:	Dr. Jockers	Signed:	Dr.	Eickhoff	
(Certification body	Spe	ecial ser	vices unit	_



We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 13. November 2008 BVS-Schu / Her A 20080839

DEKRA EXAM GmbH

(DURUN)
Certification body

Special services unit





3rd Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the Type Examination Certificate BVS 06 ATEX E 093 X

Equipment:

Sensor_type CMF*** ******V****, CNG050*******V****,

F*******V****, H********, R***********,

T**************** and CMFS**********

Manufacturer:

Micro Motion, Inc.

Address:

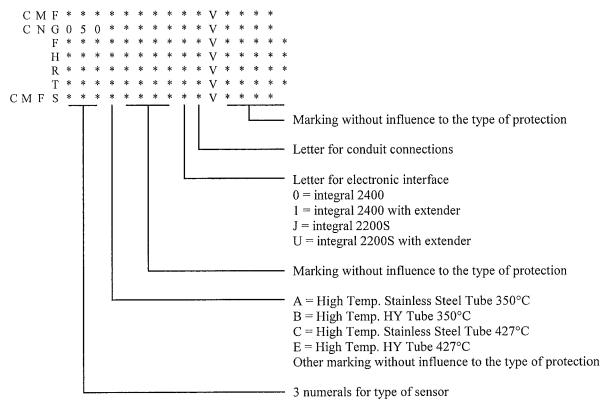
Boulder, Co. 80301, USA

Description

New versions are possible:

Type CMFS********V****

Instead of the *** letters and numerals will be inserted which characterize modifications.





The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-15:2005 Type of protection 'n'
EN 61241-0:2006 General requirements
EN 61241-1:2004 Protection by enclosures 'tD'

The marking of the equipment shall include the following:



II 3G Ex nA II T1-T4/T5 II 3D Ex tD A22 IP65 T* °C

Parameters type CMF*******V****

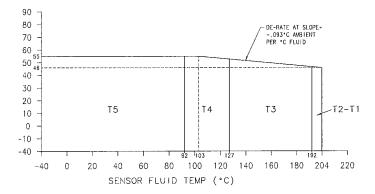
1	Drive circuit (pin connections 7-8) Voltage Current	DC	30 84	V mA
2	Pick-Off circuit (pin connections 3-4) Voltage Current	DC	30 25	V mA
3	Temperature circuit (pin connections 1, 2 and 9 resp. wires orange, yellow Voltage Current	and violet) DC	30 25	V mA

4 Thermal data

Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depends on the temperature of the medium taking into account the maximum operating temperature of the sensor and is shown in the following graphs:

4.1 Type CMFS010*****(0,1)*V****, CMFS015*****(0,1)*V**** with integral 2400





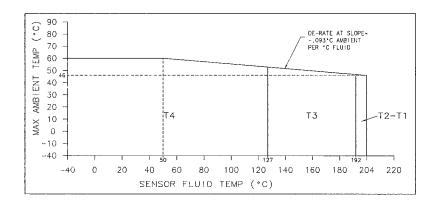
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

4.2 Type CMFS010*****(J, U)*3****, CMFS015*****(J, U)*3**** with integral 2200



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2: to T1: 207 °C.

Ambient temperature range

Ta

-40 °C up to +60 °C

Special conditions for safe use

The sensor is designed for use in connection with a suitable transmitter, e. g. type 24********* in accordance with BVS 05 E 116 X resp. type 2200S*****L**** in accordance with BVS 08 ATEX E 112 X; only the assemblage of the sensor and the transmitter guarantees the necessary degrees of protection.

Test and assessment report

BVS PP 06.2082 EG as of 02.03.2009

DEKRA EXAM GmbH

Bochum, dated 02.March 2009

Signed:	Signed:
Dr. Eickhoff	Dr. Arnold
Certification body	Special services unit



We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 02. March 2009 BVS-Schu / Her A 20090031

DEKRA EXAM GmbH

Certification body

Special services unit





Translation

4th Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the Type Examination Certificate BVS 06 ATEX E 093 X

Equipment:

Sensor type CMF*** ******V****, CNG050*******V****,

F******, H******, R*******, R*******

T************** and CMFS********V****

Manufacturer:

Micro Motion, Inc.

Address:

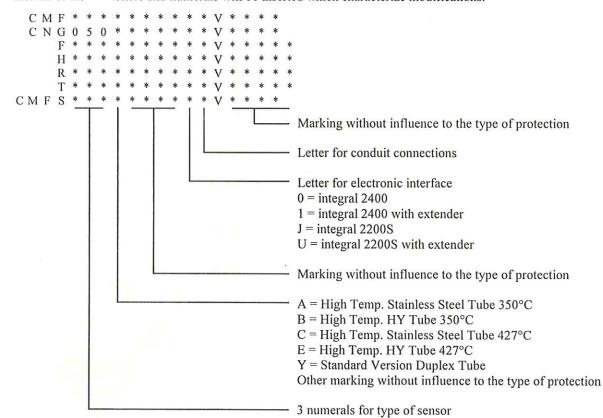
Boulder, Co. 80301, USA

Description

New versions are possible:

Type CMFHC*Y******V****

Instead of the *** letters and numerals will be inserted which characterize modifications:





The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-15:2005 Type of protection 'n'
EN 61241-0:2006 General requirements
EN 61241-1:2004 Protection by enclosures 'tD'

The marking of the equipment shall include the following:



Parameters type CMF*******V****

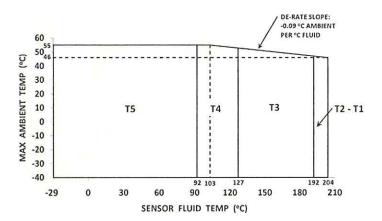
1	Drive circuit (pin connections 7-8) Voltage Current	DC	30 84	V mA
2	Pick-Off circuit (pin connections 3-4) Voltage Current	DC	30 25	V mA
3	Temperature circuit (pin connections 1, 2 and 9 resp. wires orange, yel Voltage Current	low and violet) DC	30 25	V mA

4 Thermal data

Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depends on the temperature of the medium taking into account the maximum operating temperature of the sensor and is shown in the following graphs:

For type CMFHC*Y****(0,1)*V****





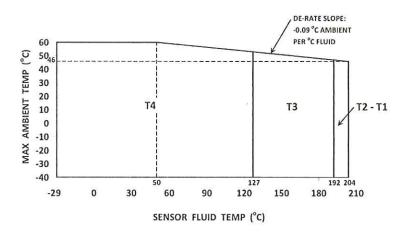
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust for types CMFHC*Y****** is as follows: T5: 95 °C, T4: 130 °C, T3: 195 °C, T2 to T1: 207 °C.

Ambient temperature range

Ta

-40 °C up to +55 °C

For type CMFHC*Y****(J,U)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature T for dust for types CMFHC*Y****** is as follows: T4: 130 °C, T3: 195 °C, T2 to T1: 207 °C.

Ambient temperature range

Ta

-40 °C up to +60 °C

Special conditions for safe use

The sensor is designed for use in connection with a suitable transmitter, e. g. type 24******L**** in accordance with BVS 05 E 116 X resp. type 2200S*****L**** in accordance with BVS 08 ATEX E 112 X; only the assemblage of the sensor and the transmitter guarantees the necessary degrees of protection.

Test and assessment report

BVS PP 06.2082 EG as of 12.08.2009

DEKRA EXAM GmbH

Bochum, dated 12. August 2009

Signed: Migenda	Signed: Dr. Eickhoff
Certification body	Special services unit



We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 12.August 2009 BVS-Schu/Sz A 20090500

DEKRA EXAM GmbH

Certification body

Special services unit





5th Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the Type Examination Certificate BVS 06 ATEX E 093 X

Equipment:

Sensor type CMF*** ************, CNG050*******V****,

Manufacturer:

Micro Motion, Inc.

Address:

Boulder, Co. 80301, USA

Description

The sensors can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

New versions with integral transmitter type FMT***3*L**** (BVS PP 10.2222EG) are possible:

Type ********(K, L, M or N)*V****

A new sensor type CMFHC4******V**** is possible.

Versions 2200S with THUM Wireless Hart Adaptor are possible.

Revised flex conduit for CMF High Temperature versions can be used.

Also the sensors have been tested in acc. with the standards EN 60079-0:2009, EN 60079-15:2010; this leads to a modified marking.

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2009

General requirements

EN 60079-15:2010

Type of protection'n'

EN 60079-31:2009

Protection by enclosures 't'

The marking of the equipment shall include the following:

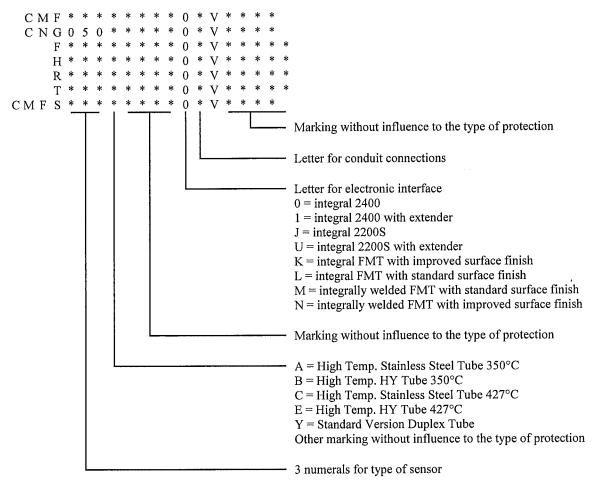


II 3G Ex nA IIC T1-T4/T5 Gc II 3D Ex tc IIIC T* °C Dc IP65



Sensor type CMF*******V**** CNG050******V**** F********V***** H********V**** R*******V**** T*******V**** CMFS*******V***

Instead of the *** letters and numerals will be inserted which characterize modifications.



Param	<u>neters</u>			
1	Drive circuit (pin connections 7-8) Voltage Current	DC	30 84	V mA
2	Pick-Off circuit (pin connections 3-4 and 5-6) Voltage Current	DC	30 25	V mA
3	Temperature circuit (pin connections 1, 2 and 9) Voltage Current	DC	30 25	V mA

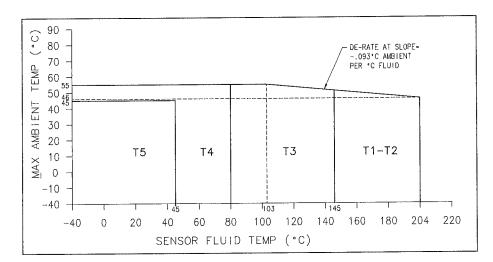


Thermal data Regulation of temperature class/max. surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depends on the temperature of the medium taking into account the maximum operating temperature of the sensor and are shown in the following graphs:

4.1 Excluding CMF***(A, B, C , E)****(0,1,K,L,M, N)*V****

Sensor type			
With 2400S	CMF010*****(0,1)*V****	CMF025*****(0,1)*V**** CMF050*****(0,1)*V**** CMF100*****(0,1)*V****	CMF200*****(0,1)*V**** CMF300*****(0,1)*V****
With FMT	CMF010*****(K,L,M,N)*V****	CMF025*****(K,L,M,N)*V**** CMF050*****(K,L,M,N)*V**** CMF100*****(K,L,M,N)*V****	CMF200*****(K,L,M,N)*V**** CMF300*****(K,L,M,N)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 254°C

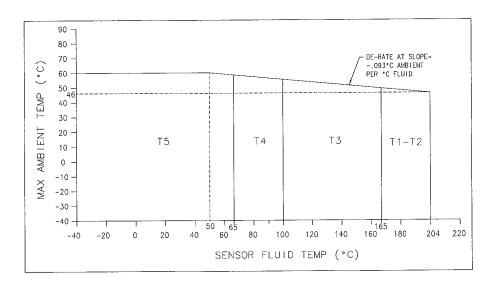
Ambient temperature range

Ta -40 °C up to +55 °C

4.2 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****

Sensor type	
With 2400S	CMF400*****(0,1)*V****
With FMT	CMF400*****(K,L,M,N)*V****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 234°C

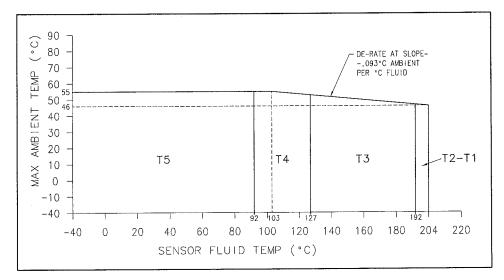
Ambient temperature range

Та

-40 °C up to +60 °C

4.3 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****

Sensor type	
With 2400S	CMFHC2*****(0,1)*V**** CMFHC3*****(0,1)*V**** CMFHC4*****(0,1)*V****
With FMT	CMFHC2*****(K,L,M,N)*V**** CMFHC3*****(K,L,M,N)*V**** CMFHC4****(K,L,M,N)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C



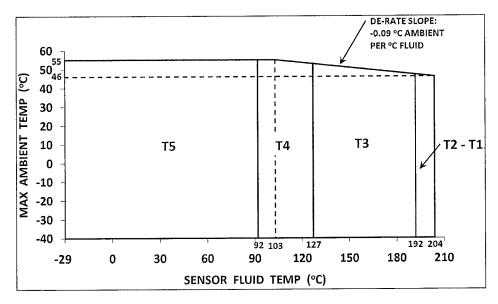
Ambient temperature range

Ta

-40 °C up to +55 °C

4.4 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****

Sensor type	
With 2400S	CMFHC*Y****(0,1)*V****
With FMT	CMFHC*Y****(K,L,M,N)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

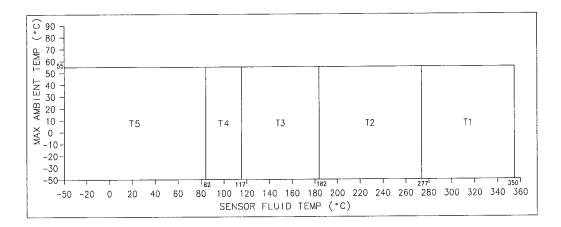
Ambient temperature range

Ta -40 °C up to +55 °C



4.5 CMF***(A, B)****(0,1,K,L,M, N)*V****

Sensor type	
	CMF200(A,B)****(0,1)*V****
	CMF300(A,B)****(0,1)*V****
With 2400S	CMF400(A,B)****(0,1)*V****
W IIII 24005	CMFHC2(A,B)****(0,1)*V****
	CMFHC3(A,B)****(0,1)*V****
	CMFHC4(A,B)****(0,1)*V****
	CMF200(A,B)****(K,L,M,N)*V****
With FMT	CMF300(A,B)****(K,L,M,N)*V****
	CMF400(A,B)****(K,L,M,N)*V****
	CMFHC2(A,B)****(K,L,M,N)*V****
	CMFHC3(A,B)****(K,L,M,N)*V****
	CMFHC4(A,B)****(K,L,M,N)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 363°C

Ambient temperature range

Ta -50 °C up to +55 °C

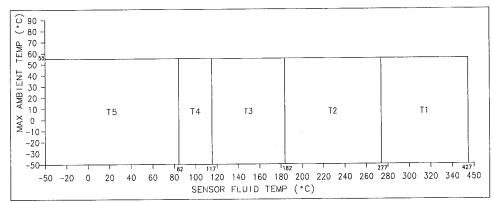
The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

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4.6 CMF***(C, E)****(0,1,K,L,M, N)*V****

Sensor type	
	CMF200(C,E)****(0,1)*V****
	CMF300(C,E)****(0,1)*V****
With 2400S	CMF400(C,E)****(0,1)*V****
W IIII 24005	CMFHC2(C,E)****(0,1)*V****
	CMFHC3(C,E)****(0,1)*V****
	CMFHC4(C,E)****(0,1)*V****
	CMF200(C,E)****(K,L,M,N)*V****
	CMF300(C,E)****(K,L,M,N)*V****
With FMT	CMF400(C,E)****(K,L,M,N)*V****
	CMFHC2(C,E)****(K,L,M,N)*V****
	CMFHC3(C,E)****(K,L,M,N)*V****
	CMFHC4(C,E)****(K,L,M,N)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 440°C

Ambient temperature range:

Ta

-50 °C up to +55°C

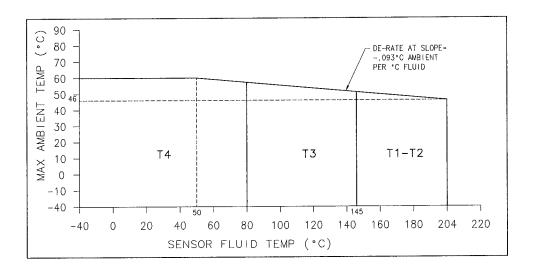
The minimum ambient and process fluid temperature for dust is -40 $^{\circ}\text{C}$.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

4.7 Excluding CMF***(A, B, C, E)****(J,U)*V****

Sensor type			
With 2200S	CMF010*****(J,U)*V****	CMF025*****(J,U)*V**** CMF050*****(J,U)*V**** CMF100*****(J,U)*V****	CMF200*****(J,U)*V**** CMF300*****(J,U)*V****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 254°C

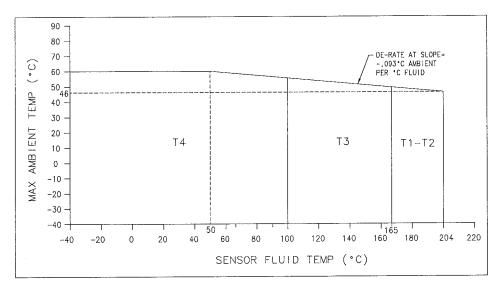
Ambient temperature range

Ta

-40 °C up to +60 °C

Excluding CMF***(A, B, C, E)****(J,U)*V**** 4.8

Sensor type	
With 2200S	CMF400*****(J,U)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 234°C

Ambient temperature range

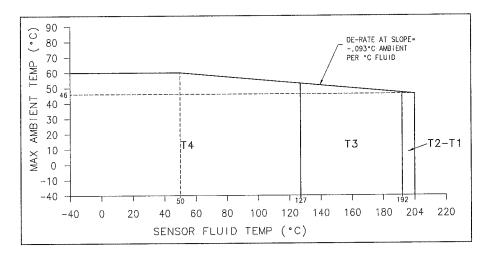
Ta

-40 °C up to +60 °C

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4.9 Excluding CMF***(A, B, C, E)****(J,U)*V****

Sensor type	
	CMFHC2*****(J,U)*V****
With 2200S	CMFHC3*****(J,U)*V****
	CMFHC4****(J,U)*V****



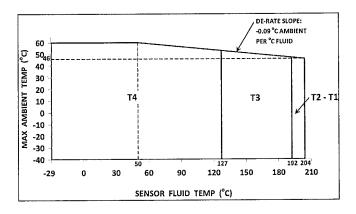
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

Ambient temperature range

Ta -40 °C up to +55 °C

4.10 Excluding CMF***(A, B, C, E)****(J,U)*V****

Sensor ty	/pe	
With 220)0S	CMFHC*Y****(J,U)*V****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows:T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

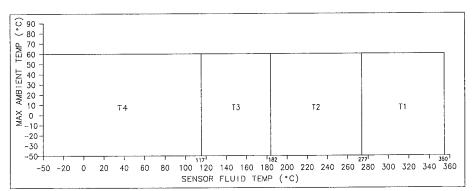
Ambient temperature range

Ta

-40 °C up to +60 °C

4.11 CMF***(A, B)****(J,U)*V****

Sensor type	
With 2200S	CMF200(A,B)****(J,U)*V****
	CMF300(A,B)****(J,U)*V****
	CMF400(A,B)****(J,U)*V****
	CMFHC2(A,B)****(J,U)*V****
	CMFHC3(A,B)****(J,U)*V****
	CMFHC4(A,B)****(J,U)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows:T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 363°C

Ambient temperature range

Ta

-50 °C up to +60 °C

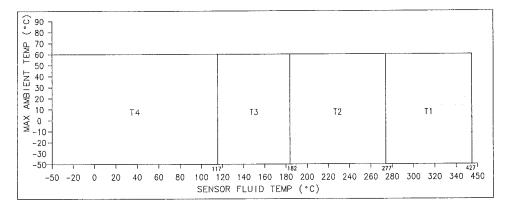
The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

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$CMF^{***}(C, E)^{****}(J,U)^*V^{****}$ 4.12

Sensor type	
With 2200S	CMF200(C,E)****(J,U)*V**** CMF300(C,E)****(J,U)*V**** CMF400(C,E)****(J,U)*V**** CMFHC2(C,E)****(J,U)*V**** CMFHC3(C,E)****(J,U)*V**** CMFHC4(C,E)****(J,U)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 440°C

Ambient temperature range

-50 °C up to +60 °C

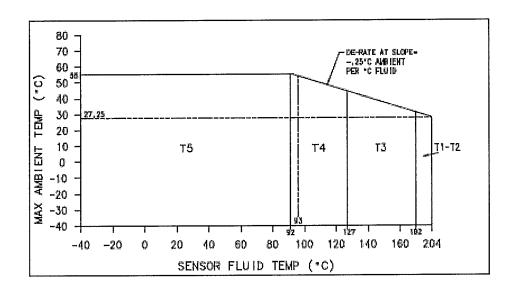
The minimum ambient and process fluid temperature for dust is -40 $^{\circ}\text{C}.$

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Excluding $F^{***}(A, B, C, E)^{*****}(0,1,K,L,M, N)^*V^{*****}$ 4.13

		······································
Sensor type	9 1 9	
	F025******(0,1)*V*****	
	F050******(0,1)*V*****	
33734h 2400C	H025*****(0,1)*V*****	CNG050***(0,1)*V****
With 2400S	H050*****(0,1)*V****	
	R025******(0,1)*V*****	
	R050******(0,1)*V*****	
	F025*****(K,L,M,N)*V****	
	F050******(K,L,M,N)*V****	
With FMT	H025*****(K,L,M,N)*V****	CNG050***(K,L,M,N)*V****
AA 1011 1.1AT 1	H050*****(K,L,M,N)*V*****	(14,E,101,14) V
	R025*****(K,L,M,N)*V****	
	R050*****(K,L,M,N)*V****	





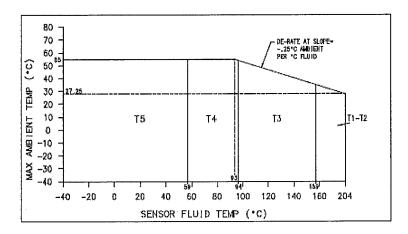
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

Ambient temperature range

Ta -40 °C up to +55 °C

4.14 Excluding F***(A, B, C, E)*****(0,1,K,L,M, N)*V*****

Sensor type	
With 2400S	F100******(0,1)*V***** H100******(0,1)*V***** R100******(0,1)*V*****
With FMT	F100******(K,L,M,N)*V***** H100*****(K,L,M,N)*V***** R100*****(K,L,M,N)*V*****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 240°C

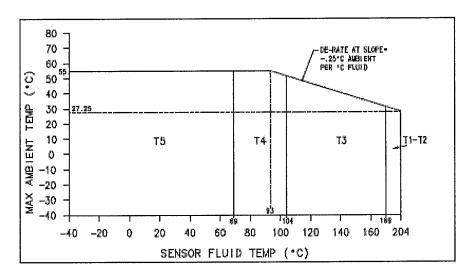
Ambient temperature range

Ta

-40 °C up to +55 °C

4.15 Excluding F***(A, B, C, E)*****(0,1,K,L,M, N)*V*****

Sensor type	
With 2400S	F200******(0,1)*V***** H200******(0,1)*V***** R200******(0,1)*V*****
With FMT	F200*****(K,L,M,N)*V**** H200*****(K,L,M,N)*V***** R200*****(K,L,M,N)*V*****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 230°C

Ambient temperature range

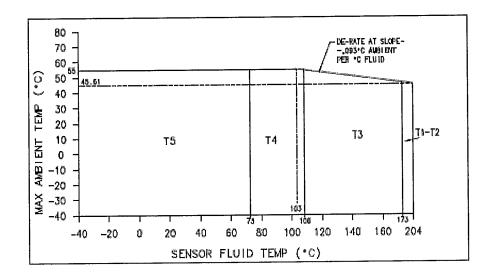
Ta

-40 °C up to +55 °C

4.16 Excluding F***(A, B, C, E)*****(0,1,K,L,M, N)*V*****

Sensor type	
With 2400S	F300******(0,1)*V*****
	H300*****(0,1)*V****
With FMT	F300******(K,L,M,N)*V*****
	H300*****(K,L,M,N)*V****





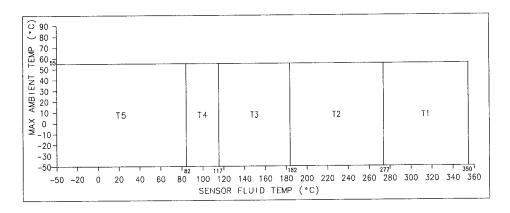
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 226°C

Ambient temperature range

Ta -40 °C up to +55 °C

4.17 F***(A, B)*****(0,1,K,L,M, N)*V*****

Sensor type	
With 2400S	F025(A,B)*****(0,1)*V***** F050(A,B)*****(0,1)*V***** F100(A,B)*****(0,1)*V***** F300(A,B)*****(0,1)*V*****
With FMT	F025(A,B)*****(K,L,M,N)*V***** F050(A,B)*****(K,L,M,N)*V***** F100(A,B)*****(K,L,M,N)*V***** F300(A,B)*****(K,L,M,N)*V*****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows:T5: T 95°C, T4:T 130°C, T3:T 195°C, T2T: 290°C and T1:T 363°C

Ambient temperature range

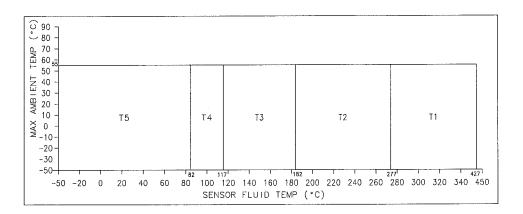
Ta -50 °C up to +55 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

4.18 F***(C, E)*****(0,1,K,L,M, N)*V*****

Sensor type	
With 2400S	F025(C,E)*****(0,1)*V***** F050(C,E)*****(0,1)*V***** F100(C,E)*****(0,1)*V***** F300(C,E)*****(0,1)*V*****
With FMT	F025(C,E)*****(K,L,M,N)*V***** F050(C,E)*****(K,L,M,N)*V***** F100(C,E)*****(K,L,M,N)*V***** F300(C,E)*****(K,L,M,N)*V*****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5: T 95°C, T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 440°C

Ambient temperature range

Ta -50 °C up to +55 °C

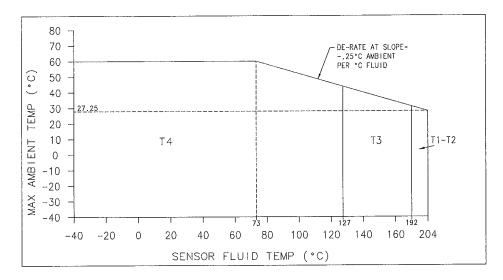
The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



4.19 Excluding F***(A, B, C, E)*****(J,U)*V*****

Sensor type		
	F025******(J,U)*V*****	
	F050******(J,U)*V*****	
With 2200S	H025*****(J,U)*V****	CNG050***(J,U)*V****
W IIII 22003	H050******(J,U)*V*****	(3,0)
	R025******(J,U)*V****	
	R050******(J,U)*V****	



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

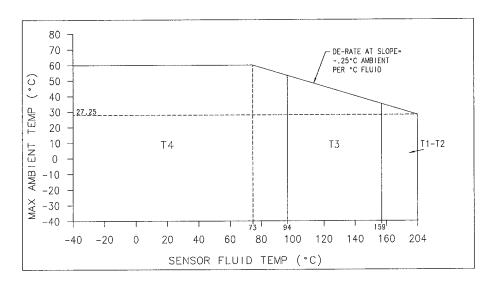
Ambient temperature range

Ta -40 °C up to +60 °C

4.20 Excluding F***(A, B, C, E)*****(J,U)*V*****

Sensor type	
	F100******(J,U)*V****
With 2200S	H100******(J,U)*V****
	R100******(J,U)*V*****



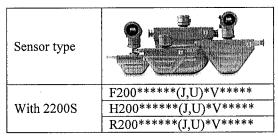


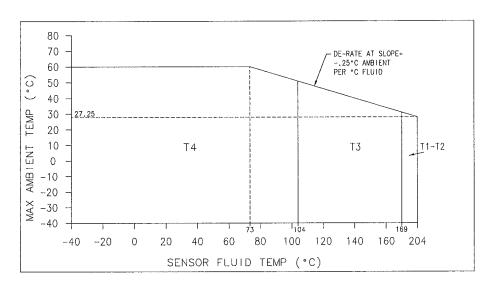
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 240°C

Ambient temperature range

Ta -40 °C up to +60 °C

4.21 Excluding F***(A, B, C, E)*****(J,U)*V*****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 230°C

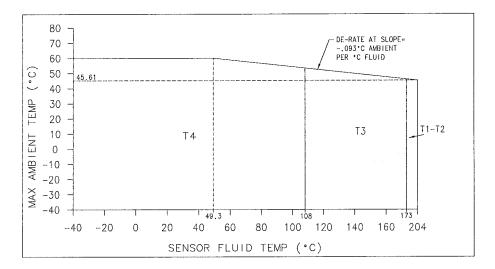
Ambient temperature range

Ta -40 °C up to +60 °C



4.22 Excluding F***(A, B, C , E)*****(J,U)*V*****

Sensor type	
With 2200S	F300******(J,U)*V****
	H300*****(J,U)*V****



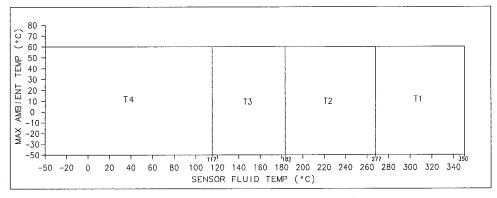
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 226°C

Ambient temperature range

Ta -40 °C up to +60 °C

4.23 F***(A, B)*****(J,U)*V*****

Sensor type	
With 2200S	F025(A,B)*****(J,U)*V*****
	F050(A,B)*****(J,U)*V*****
	F100(A,B)*****(J,U)*V*****
	F300(A,B)*****(J,U)*V*****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows:T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 363°C

Ambient temperature range

Ta

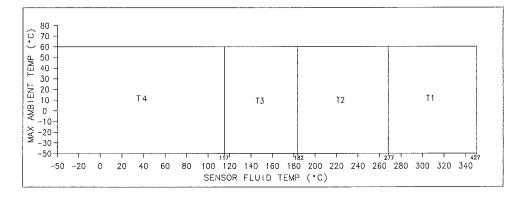
-50 °C up to +60 °C

The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

4.24 F***(C, E)*****(J,U)*V*****

Sensor type	t de la compet
With 2200S	F025(C,E)*****(J,U)*V***** F050(C,E)*****(J,U)*V***** F100(C,E)*****(J,U)*V***** F300(C,E)*****(J,U)*V*****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2:T 290°C and T1:T 440°C

Ambient temperature range

Ta

-50 °C up to +60 °C

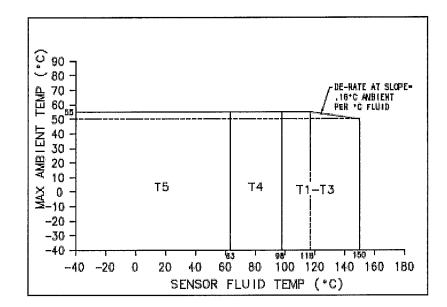
The minimum ambient and process fluid temperature for dust is -40 °C.

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.



4.25 T********(0,1,K,L,M,N)*V*****

Sensor type	
With 2400S	T025******(0,1)*V***** T050******(0,1)*V***** T100*******(0,1)*V***** T150*******(0,1)*V*****
With FMT	T025*****(K,L,M,N)*V***** T050*****(K,L,M,N)*V***** T100*****(K,L,M,N)*V***** T150*****(K,L,M,N)*V*****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5: T 95°C, T4:T 130°C, T3 to T1:T 182°C

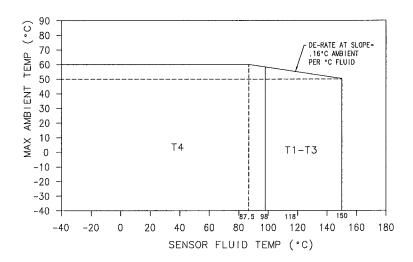
Ambient temperature range

Ta -40 °C up to +55 °C

4.26 T********(J,U)*V*****

Sensor type	
With 2200S	T025******(J,U)*V***** T050******(J,U)*V***** T100******(J,U)*V***** T150******(J,U)*V*****





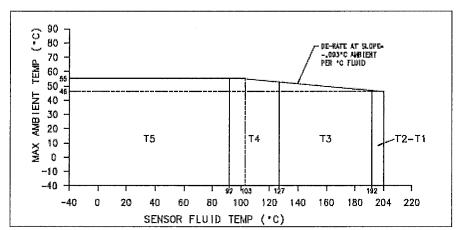
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3 to T1:T 182°C

Ambient temperature range

Ta -40 °C up to +60 °C

4.27 CMFS*******(0,1,K,L,M,N)*V****

Sensor type	
With 2400S	CMFS010*****(0,1)*V****
W III 24003	CMFS015*****(0,1)*V****
With FMT	CMFS010*****(K,L,M,N)*V****
	CMFS015*****(K,L,M,N)*V****



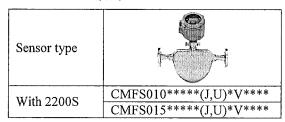
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T5: T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

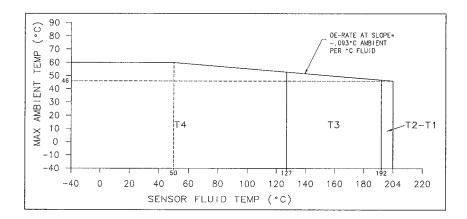
Ambient temperature range

Ta -40 °C up to +55 °C



4.28 CMFS*******(J,U)*V****





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature. The maximum surface temperature for dust is as follows: T4:T 130°C, T3:T 195°C, T2 to T1:T 207°C

Ambient temperature range

Ta

-40 °C up to +60 °C

Special conditions for safe use

The sensor is designed for use in connection with a suitable transmitter, e. g. type 24******L**** in accordance with BVS 05 E 116 X resp. type 2200S*****L**** in accordance with BVS 08 ATEX E 112 X resp. type FMT*****L**** in accordance with BVS 10 ATEX E 115 X; only the assemblage of the sensor and the transmitter guarantees the necessary degrees of protection.

Test and assessment report

BVS PP 06.2082 EG as of 03.11.2010

DEKRA EXAM GmbH

Bochum, dated 03 November 2010

Signed:	Simanski	Signed:	Dr. Eickhoff	
Ce	ertification body	S	pecial services unit	



We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 03.11.2010 BVS-Schu/Her A 20100861

DEKRA EXAM GmbH

Certification body



DEKRA EXAM GmbH Postfach 10 27 48 44727 Bochum

Micro Motion, Inc. 7070 Winchester Circle BOULDER, Co. 80301

USA

DEKRA EXAM GmbH

Fachstelle für Sicherheit elektrischer Betriebsmittel - BVS Dinnendahlstraße 9 44809 Bochum Telefon +49.234.3696-300 Telefax +49.234.3696-301

Kontakt Tel. direkt Dipl.-Ing. Ute Hauke +49.234.3696-338

Fax direkt E-Mail

+49.234.3696-301 Ute.Hauke@dekra.com

Datum

28.01.2011

Unser Zeichen: BVS-Hk/Schae A 20100803

Ihr Zeichen: Ihre Nachricht: 07.10.2010

H. van Holland

Sensoren Typ - type CMF*******V****, CNG050*******V**** F***********, H*********, R********, T********V****

Ladies and Gentlemen,

We added the Revision Report as of 28.01.2011 to the Test and Assessment Report BVS PP 06.2082 EG.

We confirm, that the Certificate

BVS 06 ATEX 093 X as of 02.08.2006, last modified 03.11.2010

is still valid.

Yours faithfully

DEKRA EXAM GmbH

Dr. Franz Eickhoff

Ute Hauke

Revision Report Descriptive documents Invoice

Translation

6. Supplement to the Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres Directive 94/9/EC
- (3) No. of Type Examination Certificate: BVS 06 ATEX E 093 X

(5) Manufacturer: Micro Motion, Inc.

(6) Address: Boulder, Co. 80301, USA

- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this supplement.
- (8) The certification body of DEKRA EXAM GmbH, notified body no 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive The examination and test results are recorded in the test and assessment report BVS PP 96.2982 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with

EN 60079-0:2009 General requirements EN 60079-15:2010 Type of protection n EN 60079-31:2009 Protection by enclosures 1/2

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 3G Ex nA IIC T1-T4/T5/T6 Gc II 3D Ex tc IIIC T* °C Dc IP 66

DEKRA EXAM GmbH Bochum, dated 29.07.2011

Signed: Hans Christian Simanski

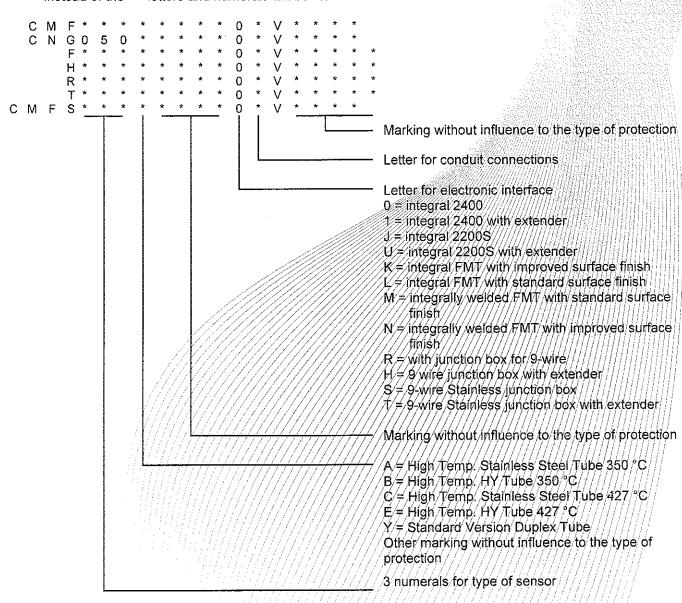
Certification body

Signed: Dr. Franz Eickhoff

Special services unit

- (13) Appendix to
- (14) 6. Supplement to the Type Examination Certificate BVS 06 ATEX E 093 X
- (15) 15.1 Subject and type

Instead of the *** letters and numerals will be inserted which characterize modifications.



15.2 Description

New versions are possible:

- Addition of J-Box Interface Codes R, H, S and T
- Added ETO 18748 Use of Silicone O-Ring for -50 °C Dust Approval
- Changed IP Rating from IP65 to IP66

15.3.1	Drive circuit (pin connections 7-8) Voltage Current	DC	30 V 84 mA
15.3.2	Pick-Off circuit (pin connections 3-4) Voltage Current	DC	30 V 25 mA
15.3.3	Temperature circuit (pin connections 1, 2 and 9) Voltage Current	DC	30 V 25 mA

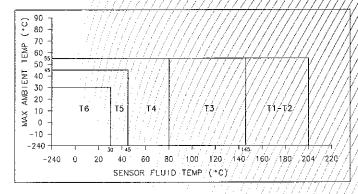
15.3.4 Thermal data

Regulation of temperature class/max. Surface temperature T

The classification into a temperature class/determination of the maximum surface temperature T depend on the temperature of the medium taking into account the maximum operating temperature of the sensor and are shown in the following graphs:

15.3.4.1





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

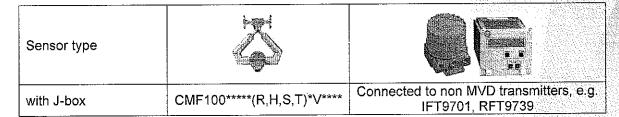
The maximum surface temperature T for dust is as follows: T6: 80 °C, T5: 95 °C, T4: 130 °C, T3: 195 °C, T2 and T1: 254 °C. The minimum ambient temperature allowed for dust is -40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

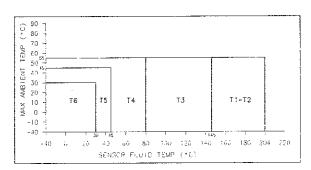
Ambient temperature range

Ta

-240 °C up to +55 °C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: 76/80 °C/T5/95/°C/T4/1/30 °C/T3/195 °C, T2 and T1: 254 °C. The minimum ambient temperature allowed for dust is 40 °C/When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is 50°C.

Ambient temperature range

∕Ta

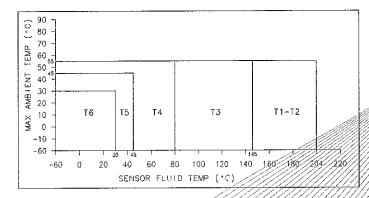
/-40/°C up to +55 °C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type

with J-box CMF100*****(R,H,S,T)*V****

Connected to MVD transmitters, e.g. 1000/2000/3000MVD series



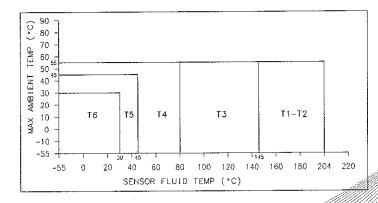
Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows T6/80°C/75/95°C/T4/130°C, T3 195°C, T2 and T1: 254°C. The minimum ambient temperature allowed for dust is 40°C/When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50°C.

Ambient temperature range

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	
with J-box	CMF200*****(R,H,S,T)*V****
	CMF300*****(R,H,S,T)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6/80 °C/T5/95 °C/T4: 130 °C/T3 195 °C, T2 and T1: 254 °C. The minimum ambient temperature allowed for dust is 40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

Ambient temperature range

∕Va.

/-55/°C/up/to/+55 °C

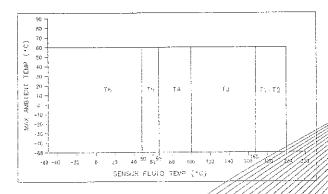
The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type

with J-box

CMF400******(R,H,S,T)*V****

Connected to MVD transmitters, e.g. 1000/2000/3000MVD series



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

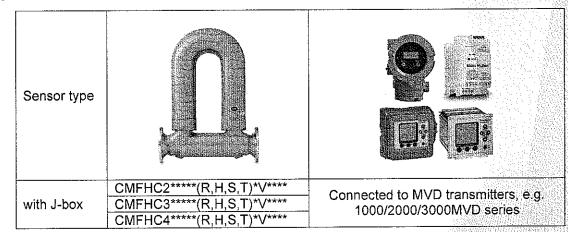
The maximum surface temperature T for dust is as follows, T6, 80 °C, T5, 95 °C, T4, 1/30 °C, T3; 195 °C, T2 and T1: 234 °C. The minimum ambient temperature allowed for dust is -40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

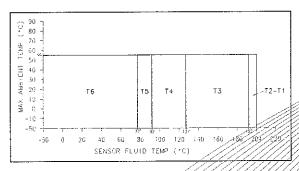
Ambient temperature range

/T;á/

/-68 / C/up/to +60 °C

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows; T6.80 °C, T5.95 °C, T4.130 °C, T3.195 °C, T2 and T1: 207 °C. The minimum ambient temperature allowed for dust is 40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

Ambient temperature range

///t/a//////-5.0/°C/up/to/+55/°C

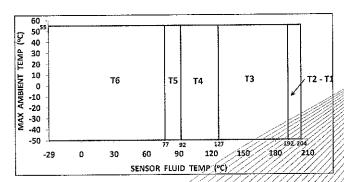
The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type

with J-box

CMFHC*Y****(R,H,S,T)*V****

Connected to MVD transmitters, e.g. 1000/2000/3000MVD series.



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6/80 °C/T5/95 °C, T4/130 °C/T3 195 °C, T2 and T1: 207 °C. The minimum ambient temperature allowed for dust is 40 °C/When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

Ambient temperature range

//l/3

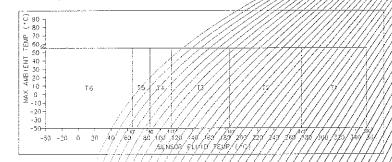
//50/°C/up/to/+55°C

15.3.4.8

All sensors listed in 15.3.4.1 up to and including 15.3.4.7 can also be executed with the alternate junction box covered in BVS 09 ATEX E 071 U.

15.3.4.9

Sensor type		
	CMF200(A or B)****(R,S)*V**** CMF300(A or B)****(R,S)*V****	
with J-box	CMF400(A or B)****(R,S)*V****	Connected to MVD transmitters, e.g.
	CMFHC2(A or B)****(R,S)*V****	1000/2000/3000MVD series
	CMFHC3(A or B)****(R,S)*V****	
	CMFHC4(A or B)****(R,S)*V****	



Note: Use the above graph to determine the temperature class/for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: \(76 \), \(75 \), \(75 \), \(774 \), \(730 \) C. T3: T 195 °C, T2: T 290 °C, T1: T 363 °C. The minimum ambient temperature allowed for dust is -40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

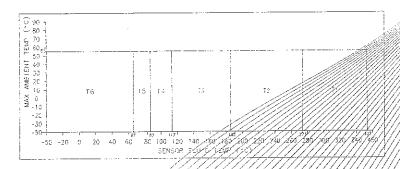
Ambient temperature range

/Tá

-50 °C up to +55 °C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient // temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type		
with J-box	CMF200(C or E)****(R,S)*V**** CMF300(C or E)****(R,S)*V**** CMF400(C or E)****(R,S)*V**** CMFHC2(C or E)****(R,S)*V**** CMFHC3(C or E)****(R,S)*V**** CMFHC4(C or E)****(R,S)*V****	Connected to MVD transmitters, e.g. 1000/2000/3000MVD series



Note: Use the above graph to determine the temperature class/for/a/given/fluid/and/ambient temperature.

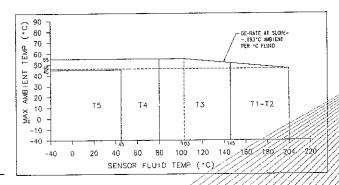
The maximum surface temperature T for dust is as follows: T6./T/80°C/T5./T/95°C/T4./T/30°C T3: T 195°C, T2./T/290°C/T1./T/440°C. The minimum ambient temperature allowed for dust is -40°C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50°C.

Ambient temperature range

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor

15.3.4.11 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****:

Sensor type			
With 2400S	CMF010*****(0,1)*V****	CMF025*****(0,1)*V**** CMF050*****(0,1)*V**** CMF100*****(0,1)*V****	CMF200*****(0,1)*V**** CMF300*****(0,1)*V****
With	CMF010****(K,L,M,N)*V****	CMF025*****(K,L,M,N)*V**** CMF050*****(K,L,M,N)*V**** CMF100*****(K,L,M,N)*V****	CMF200*****(K,L,M,N)*V**** CMF300*****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: 75/ 7/95 °C, 74/ T/130 °C, T3 T 195 °C, T2 to T1: T 254 °C

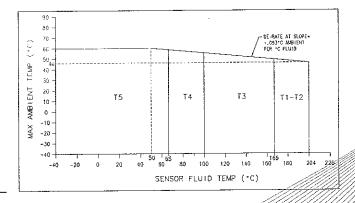
Ambient temperature range:

 $//\pi$

/-40/°C/up to/+55/°C

15.3.4.12 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****:

Sensor type	
With 2400S	CMF400*****(0,1)*V****
With FMT	CMF400****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given/fluid/and ambient temperature.

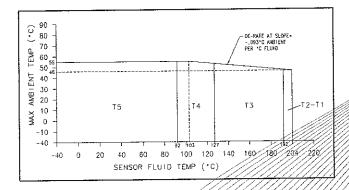
Note 2: The maximum surface temperature for dust is as follows 75/7/95 C 74/1 130 °C

T3: T 195 °C, T2 to T1: T 234 °C

Ambient temperature range://////

15.3.4.13 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****:

Sensor type	
With 2400S	CMFHC2*****(0,1)*V**** CMFHC3*****(0,1)*V**** CMFHC4*****(0,1)*V****
With FMT	CMFHC2*****(K,L,M,N)*V**** CMFHC3*****(K,L,M,N)*V**** CMFHC4*****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: \(\pi_5\) \(\pi_1\) \(\pi_2\) \(\pi_1\) \(\pi_2\) \(\pi_3\) \(\pi_4\) \(\pi_1\) \(\pi_2\) \(\pi_3\) \(\pi_4\) \(\pi_4\) \(\pi_3\) \(\pi_4\) \(

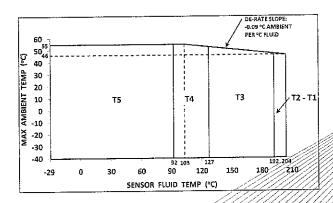
Ambient temperature range:///////

///

/_40/°C/up to/+55/°C

15.3.4.14 Excluding CMF***(A, B, C, E)****(0,1,K,L,M, N)*V****:

Sensor type	
With 2400S	CMFHC*Y****(0,1)*V****
With FMT	CMFHC*Y****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: \$\nabla 5 \nabla 6 \nabla 6 \nabla 7 \nabla 6 \

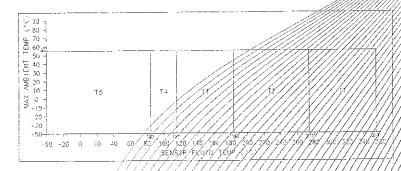
Ambient temperature range:

⁄7ø//

/_40 °C/up/to /+55 °C

15.3.4.15 CMF***(A, B)****(0,1,K,L,M, N)*V****:

Sensor type	
	CMF200(A,B)****(0,1)*V****
	CMF300(A,B)****(0,1)*V****
14/6th 04000	CMF400(A,B)****(0,1)*V****
With 2400S	CMFHC2(A,B)****(0,1)*V****
	CMFHC3(A,B)****(0,1)*V****
	CMFHC4(A,B)****(0,1)*V****
With FMT	CMF200(A,B)****(K,L,M,N)*V****
	CMF300(A,B)****(K,L,M,N)*V****
	CMF400(A,B)****(K,L,M,N)*V****
	CMFHC2(A,B)****(K,L,M,N)*V****
	CMFHC3(A,B)****(K,L,M,N)*V****
	CMFHC4(A,B)****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: 75/7/95°C, T4/7/30°C, T3: T 195°C, T2: 290°C and T1/T/363°C

Ambient temperature range:

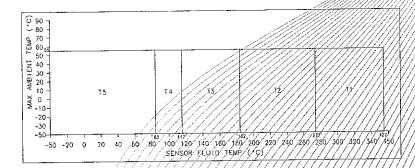
/ /ī/a/

The minimum ambient and process/fluid temperature for/dust/is/40/0

Since the electronics are mounted approx. 1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.16 CMF***(C, E)****(0,1,K,L,M, N)*V****:

Sensor type	
	CMF200(C,E)****(0,1)*V****
	CMF300(C,E)****(0,1)*V****
105th 2400C	CMF400(C,E)****(0,1)*V****
With 2400S	CMFHC2(C,E)****(0,1)*V****
	CMFHC3(C,E)****(0,1)*V****
	CMFHC4(C,E)****(0,1)*V****
	CMF200(C,E)****(K,L,M,N)*V****
	CMF300(C,E)****(K,L,M,N)*V****
With FMT	CMF400(C,E)****(K,L,M,N)*V****
	CMFHC2(C,E)****(K,L,M,N)*V****
	CMFHC3(C,E)****(K,L,M,N)*V****
	CMFHC4(C,E)****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given/fluid and/ambient/temperature.

Note 2: The maximum surface temperature for dust is as follows: \(75/\tau / 7/95 \) C \(\tau / \tau / 1/130 \) C \(\tau / \tau / \tau / 1/130 \) C \(\tau / \tau / \tau / 1/130 \) C \(\tau / \ta

Ambient temperature range:

∕Tá.

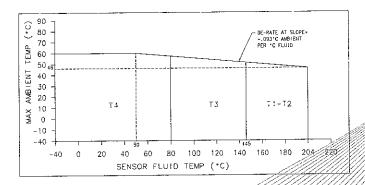
450 °C up to +55/°C

The minimum ambient and process fluid temperature for dust is 40°C

Since the electronics are mounted approx. I meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.17 Excluding CMF***(A, B, C, E)****(J,U)*V****:

Sensor type	45		
		CMF025*****(J,U)*V****	CMF200*****(J,U)*V****
With 2200S	CMF010*****(J,U)*V****	CMF050*****(J,U)*V****	CMF300*****(J,U)*V****
		CMF100****(J,U)*V****	



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

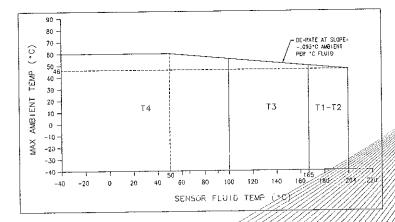
Note 2: The maximum surface temperature for dust is as follows: TA/T/30/°C/T3/T/195 °C,

T2 to T1: T 254 °C

Ambient temperature range:

15.3.4.18 Excluding CMF***(A, B, C, E)****(J,U)*V****:

Sensor type	
With 2200S	CMF400****(J,U)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

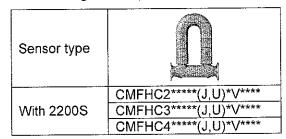
Note 2: The maximum surface temperature for dust is as follows: 74/7/130°C/73/T/195°C/T2 to T1: T 234 °C

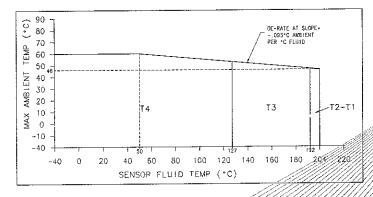
Ambient temperature range:

∕/Tá√

//40/°C up/to/+60 °C

15.3.4.19 Excluding CMF***(A, B, C, E)****(J,U)*V****:





Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: T4/T/\/30/°C/T3: T 195 °C. T2 to T1: T 207 °C

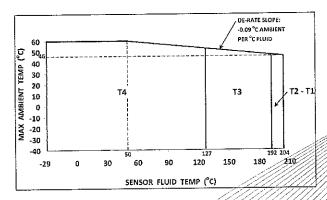
Ambient temperature range:

∕∀;

/-40 °C /up to +55 °C

15.3.4.20 Excluding CMF***(A, B, C, E)****(J,U)*V****:

Sensor type	
With 2200S	CMFHC*Y****(J,U)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: \(\text{74} \) \(\text{7} \) \(\text{73} \) \(\text{74} \) \(\text{73} \) \(\text{73} \) \(\text{73} \) \(\text{74} \) \(\text{73} \)

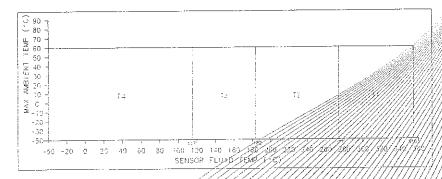
Ambient temperature range:

 $/\sqrt{V_3}$

/_4,0/°,C/up/to/+60/°,C

15.3.4.21 CMF***(A, B)****(J,U)*V****:

Sensor type	
	CMF200(A,B)****(J,U)*V****
	CMF300(A,B)****(J,U)*V****
With 2200S	CMF400(A,B)****(J,U)*V****
	CMFHC2(A,B)****(J,U)*V****
	CMFHC3(A,B)****(J,U)*V****
	CMFHC4(A,B)****(J,U)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: \(\forall \) \(\fora

Ambient temperature range

//t/á

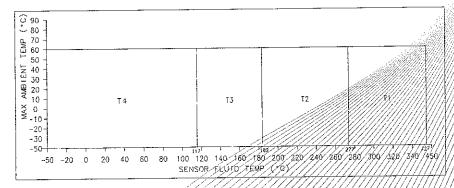
/*450/*°C/up/to/+60/°C

The minimum ambient and process fluid temperature for dust is 40/0

Since the electronics are mounted approx/1 meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.22 CMF***(C, E)****(J,U)*V****

Sensor type	
With 2200S	CMF200(C,E)****(J,U)*V**** CMF300(C,E)****(J,U)*V**** CMF400(C,E)****(J,U)*V**** CMFHC2(C,E)****(J,U)*V****
	CMFHC3(C,E)****(J,U)*V**** CMFHC4(C,E)****(J,U)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: T4/T/130°C/T3/T/195°C T2: 290°C and T1/T/440°C

Ambient temperature range:

//t∕a

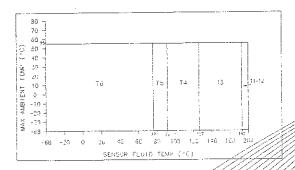
/-/50/°C/up to/+60 °C

The minimum ambient and process fluid temperature for dust is 40 %

Since the electronics are mounted approx. I/meter/away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.23 Excluding F***(A, B, C, E)*****(R,H,S,T)*V*****:

Sensor type			TO A LANGE TO SERVICE AND A LANGE TO SERVICE
with J- box	F025*****(R,H,S,T)*V***** F050*****(R,H,S,T)*V***** H025*****(R,H,S,T)*V***** H050*****(R,H,S,T)*V***** R026*****(R,H,S,T)*V***** R050*****(R,H,S,T)*V*****	CNG050***(R,H,S,T)*V****	Connected to non MVD transmitters, e.g. IFT9701, RFT9739



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature

The maximum surface temperature T for dust is as follows, T6: 80°C, T5/95°C, T4: 130°C, T3: 195°C, T2 and T1: 207°C. The minimum ambient temperature allowed for dust is 40°C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50°C.

Ambient temperature range:

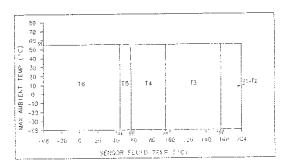
∕/7≉

/_68°C/up/to/+55/°C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.24 Excluding F***(A, B, C, E)*****(R,H,S,T)*V*****

Sensor type		
with J-box	F100*****(R,H,S,T)*V***** H100*****(R,H,S,T)*V***** R100*****(R,H,S,T)*V*****	Connected to non MVD transmitters, e.g. IFT9701, RFT9739



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6/80°C/T5/95°C/T4/130°C/T3 195°C, T2 and T1: 240°C. The minimum ambient temperature allowed for dust is -40°C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50°C.

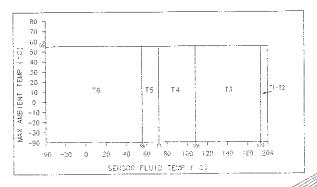
Ambient temperature range:

ta////////////////////68°C/up to +65°C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature of the medium taking into account the temperature of the medium taking into account the temperature of the sensor.

15.3.4.25 Excluding F***(A, B, C, E)*****(R,H,S,T)*V*****:

Sensor type		
with J-box	F200*****(R,H,S,T)*V***** H200*****(R,H,S,T)*V***** R200*****(R,H,S,T)*V*****	Connected to non MVD transmitters, e.g. IFT9701, RFT9739



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6: 80 °C, T5: 95 °C, T4: 130 °C, T3: 195 °C, T2 and T1: 226 °C. The minimum ambient temperature allowed for dust is 40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

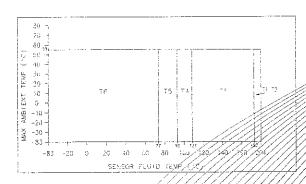
Ambient temperature range:

∕Va

-90 °C/up to +55 °C

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

			1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (
Sensor type			
with J-box	F025*****(R,H,S,T)*V***** F050*****(R,H,S,T)*V***** H025*****(R,H,S,T)*V***** H050*****(R,H,S,T)*V***** R025*****(R,H,S,T)*V***** R050*****(R,H,S,T)*V*****	CNG050***(R,H,S,T)*V****	Connected to MVD transmitters, e.g. 1000/2000/3000MVD series



Note: Use the above graph to determine the temperature of ass tor/a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6/80/C/75/95/C/74//30/C/73/195°C, T2 and T1: 207°C/The minimum ambient temperature allowed for dust is 40/°C/When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

Ambient temperature range:

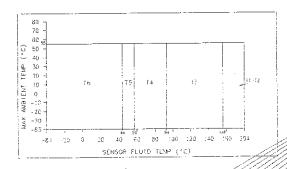
Τá⁄

-∕83/°C/up/to /+∕55/°C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Excluding F***(A, B, C, E)*****(R,H,S,T)*V*****: 15.3.4.27

_		
Sensor type	A SECTION OF THE PROPERTY OF	
l ype		
with J-box	F100*****(R,H,S,T)*V***** H100*****(R,H,S,T)*V***** R100*****(R,H,S,T)*V*****	Connected to MVD transmitters, e.g. 1000/2000/3000MVD series



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows / 76/80/C/75/95/95/0/N4/130/C/73: 195 °C, T2 and T1: 240 °C. The minimum ambient temperature allowed for dust is 40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

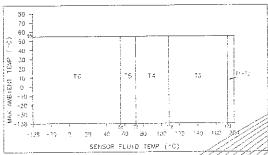
Ambient temperature range

√83/°C/up/to/+55°°C

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor,

15.3.4.28 Excluding F***(A, B, C, E)*****(R,H,S,T)*V*****:

Sensor type		The state of the s	
	F200*****(R,H,S,T)*V*****	Connected to MVD transmitters, e.g.	
with J-box	H200*****(R,H,S,T)*V*****	1000/2000/3000MVD series	
	R200*****(R,H,S,T)*V*****		



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

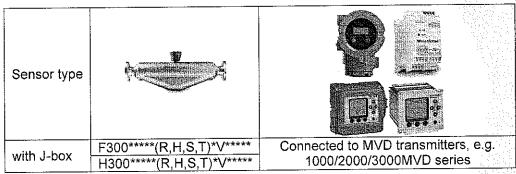
The maximum surface temperature T for dust is as follows: T6: 80 °C, T5: 95 °C, T4: 130 °C, T3: 195 °C, T2 and T1: 226 °C. The minimum ambient temperature allowed for dust is .40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

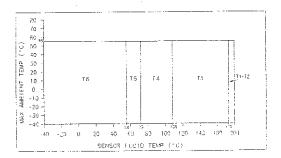
Ambient temperature range;

//t/a////138/°C up to +55/°C

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.29 Excluding F***(A, B, C, E)*****(R,H,S,T)*V*****:





Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: \(\textit{76} \) \(\text{80} \) \(\text{C} \) \(\text{T3} \) \(\text{PC} \) \(\text{T4} \) \(\text{T3} \) \(\text{PC} \) \(\text{T4} \) \(\text{T3} \) \(\text{PC} \) \(\text{T3} \) \(

Ambient temperature range:

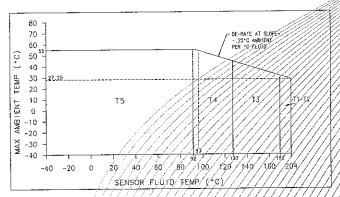
//t/á

//40/%C/up to #55 °C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

15.3.4.30 Excluding F***(A, B, C, E)*****(0,1,K,L,M, N)*V*****:

Sensor type		
With 2400S	F025*****(0,1)*V**** F050*****(0,1)*V**** H025*****(0,1)*V**** H050*****(0,1)*V**** R025*****(0,1)*V**** R050*****(0,1)*V****	CNG050***(0,1)*V****
With FMT	F025*****(K,L,M,N)*V**** F050*****(K,L,M,N)*V***** H025******(K,L,M,N)*V***** H050*****(K,L,M,N)*V***** R025*****(K,L,M,N)*V***** R050*****(K,L,M,N)*V*****	CNG050***(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature

Note 2: The maximum surface temperature for dust is as follows: 7/5: T/95°C, TA/7/30°C, 7/31 T 195°C, T2 to T1. T 207°C.

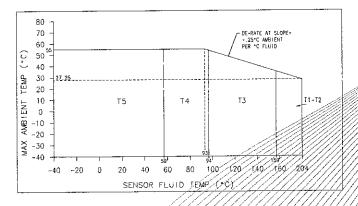
Ambient temperature range:

 $/\Lambda$ á

//-40/°C/up to/+55/°C

15.3.4.31 Excluding F***(A, B, C, E)*****(0,1,K,L,M, N)*V*****:

Sensor type	
With 2400S	F100******(0,1)*V***** H100******(0,1)*V***** R100******(0,1)*V*****
With FMT	F100******(K,L,M,N)*V***** H100******(K,L,M,N)*V***** R100******(K,L,M,N)*V*****



Note 1: Use the above graph to determine the temperature class for a given/fluid/and/ambient temperature.

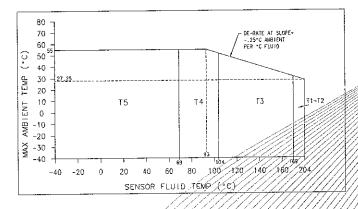
Note 2: The maximum surface temperature for dust is as follows: T5/T/95/C/, T4/T/130/C/, T3: T 195 °C, T2 to T1. T 240 °C/

Ambient temperature range:

/Тá

/-40/°C/up to/+55 °C/

Sensor type	
With 2400S	F200******(0,1)*V***** H200******(0,1)*V***** R200******(0,1)*V*****
With FMT	F200******(K,L,M,N)*V***** H200******(K,L,M,N)*V***** R200******(K,L,M,N)*V*****



Note 1: Use the above graph to determine the temperature class for a given/fluid/and/ambient/temperature.

Note 2: The maximum surface temperature for dust is as follows: \(\tau \) \(

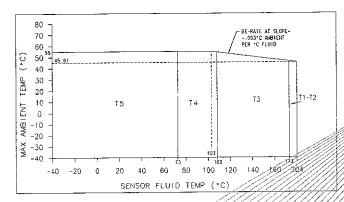
Ambient temperature range:

/ Τ,ε

/_40/9¢/up to/+55 °C

15.3.4.33 Excluding F***(A, B, C, E)*****(0,1,K,L,M, N)*V*****:

Sensor type	
14/4h 04000	F300*****(0,1)*V*****
With 2400S	H300*****(0,1)*V*****
105th F00T	F300*****(K,L,M,N)*V****
With FMT	H300*****(K,L,M,N)*V*****



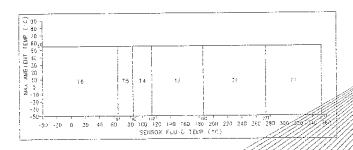
Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Ambient temperature range:

-40/°C up to +55/°C

Sensor type		
	F025(A,B)****(R,S)*V*****	
the I have	F050(A,B)****(R,S)*V****	Connected to MVD transmitters, e.g.
with J-box	F100(A.B)****(R.S)*V*****	1000/2000/3000MVD series

F300(A,B)****(R,S)*V*****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6,80 °C, T5,95 °C, T4,130 °C, T3: 195 °C, T2: 290 °C, T1: 363 °C. The minimum ambient temperature allowed for dust is 40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50 °C.

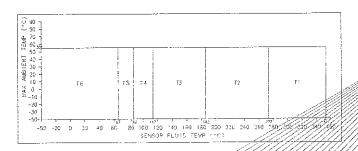
Ambient temperature range:

/7a,

//50/90 up to +55/90

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type		France Control of the
	F025(C,E)****(R,S)*V*****	
with J-box	F050(C,E)****(R,S)*V*****	Connected to MVD transmitters, e.g.
	F100(C,E)****(R,S)*V*****	1000/2000/3000MVD series
	F300(C,E)****(R,S)*V*****	



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

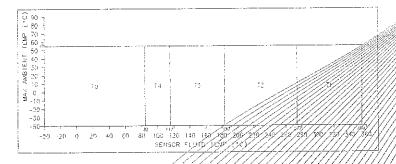
The maximum surface temperature T for dust is as follows: T6: 80°C, T5: 95°C, T4: 130°C, T3: 195°C, T2: 290°C, T1: 440°C. The minimum ambient temperature allowed for dust is 40°C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is -50°C.

Ambient temperature range:

/Ta////////////50/°C/up to/+55/°C

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	
With 2400S	F025(A,B)*****(0,1)*V***** F050(A,B)*****(0,1)*V*****
	F100(A,B)*****(0,1)*V*****
	F300(A,B)*****(0,1)*V*****
With FMT	F025(A,B)*****(K,L,M,N)*V*****
	F050(A,B)*****(K,L,M,N)*V*****
	F100(A,B)*****(K,L,M,N)*V*****
	F300(A,B)*****(K,L,M,N)*V*****



Note 1: Use the above graph to determine the temperature class for a given/fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows 75 7 95 C 74 7 730 C T3 T 195 °C, T2: 290 °C and T1: T 363 °C

Ambient temperature range:

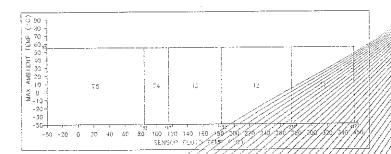
/T,a/,

-∕50/°C/up/to/+55 °C

The minimum ambient and process fluid temperature for dust is 40 / 0

Since the electronics are mounted approx. I meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	
With 2400S	F025(C,E)*****(0,1)*V*****
	F050(C,E)*****(0,1)*V*****
	F100(C,E)*****(0,1)*V*****
	F300(C,E)*****(0,1)*V*****
With FMT	F025(C,E)****(K,L,M,N)*V*****
	F050(C,E)*****(K,L,M,N)*V*****
	F100(C,E)*****(K,L,M,N)*V*****
	F300(C,E)*****(K,L,M,N)*V*****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

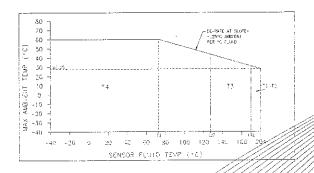
Note 2: The maximum surface temperature for dust is as follows: T5. 7 95 °C, 74 /T 130 °C, T3 T 195 °C, T2: 290 °C and 71. 7 440 °C

Ambient temperature range:

The minimum ambient and process fluid temperature for dust/is /40//C

Since the electronics are mounted approx. I meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +55 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type			
	F025*****(J,U)*V****		
	F050*****(J,U)*V*****		
74 6th 00000	H025*****(J,U)*V*****	CNC050***/ LU*\/****	
With 2200S	H050*****(J,U)*V*****	CNG050***(J,U)*V****	
	R025*****(J,U)*V*****		
	R050*****(J,U)*V****		



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows / \(\frac{1}{1}\) / \(\frac{1}{3}\) / \(\frac{1}\) / \(\frac{1}{3}\) / \(\frac{1}{3}\) / \(\frac{1}{3}\) / \(\f

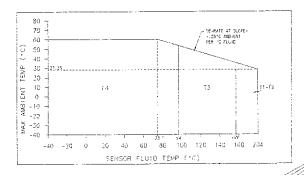
Ambient temperature range:

∕T,á

/40/°C/up to/+60/°C

15.3.4.39 Excluding F***(A, B, C, E)*****(J,U)*V*****:

Sensor type	
	F100*****(J,U)*V*****
With 2200S	H100******(J,U)*V*****
	R100*****(J,U)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

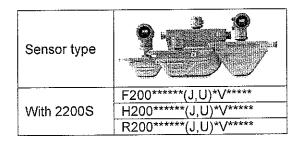
Note 2: The maximum surface temperature for dust is as follows: \(\tau \tau / \tau /

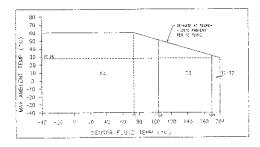
Ambient temperature range:

/Τ,a

//40/°C/up to/+60°C

15.3.4.40 Excluding F***(A, B, C, E)*****(J,U)*V*****:





Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

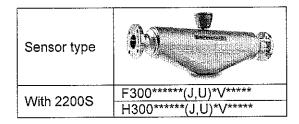
Note 2: The maximum surface temperature for dust is as follows: T4: T /130 °C /T3: T /195 °C /T2 to T1: T 230 °C.

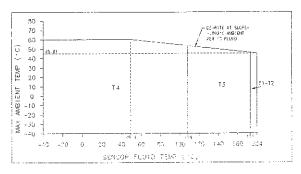
Ambient temperature range:

//Ţą

/-/40/°C/up to +60 °C

15.3.4.41 Excluding F***(A, B, C, E)*****(J,U)*V*****:





Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

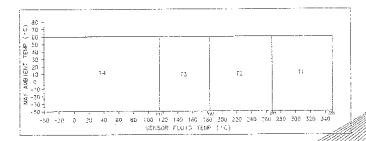
Note 2: The maximum surface temperature for dust is as follows: \(\frac{74}{7}\) 130/°C/T3/T 195/°C/T2 to T1: T 226 °C.

Ambient temperature range:

/Ţą

/₋40/°C up to +60 °C

Sensor type	
With 2200S	F025(A,B)****(J,U)*V****
	F050(A,B)****(J,U)*V*****
	F100(A,B)*****(J,U)*V*****
	F300(A,B)****(J,U)*V****



Note 1: Use the above graph to determine the temperature class/for/a/given/fluid/and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: 74/7/130 °C/73: T 195 °C, T2 290 °C and T1: T 363 °C

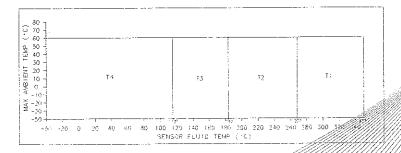
Ambient temperature range:

//T/a////////////////50°C/up to +60°C

The minimum ambient and process fluid temperature for oust is 40 %

Since the electronics are mounted approx. I meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	
With 2200S	F025(C,E)****(J,U)*V*****
	F050(C,E)*****(J,U)*V*****
	F100(C,E)****(J,U)*V****
	F300(C,E)****(J,U)*V*****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: T4/T/30 °C/T3/T/195 °C/T2: 290 °C and T1: T 440 °C.

Ambient temperature rangé

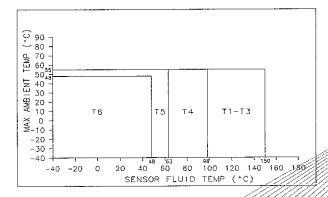
//xa

//-/50/°C/up/to/+60°C

The minimum ambient and process fluid temperature for dust is 40 0

Since the electronics are mounted approx. / meter away from the sensor by means of a flexible stainless steel hose, the use of the sensor at an ambient temperature higher than +60 °C is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	
with J-box	T025*****(R,H,S,T)*V***** T050*****(R,H,S,T)*V***** T075*****(R,H,S,T)*V***** T100*****(R,H,S,T)*V*****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

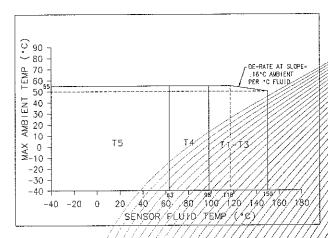
The maximum surface temperature V for dust is as follows 76.80 °C, 75.95 °C, 74.130 °C, 73 to T1: 182 °C. The minimum ambient temperature allowed for dust is 40 °C. When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is 50/00

Ambient temperature range:

/40°C up/to 455°C

The use of the sensor at higher ambient temperatures is possible, provided that the ambient temperature does not exceed the maximum temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	
With 2400S	T025*****(0,1)*V***** T050*****(0,1)*V***** T100******(0,1)*V***** T150******(0,1)*V*****
With FMT	T025*****(K,L,M,N)*V**** T050*****(K,L,M,N)*V**** T100*****(K,L,M,N)*V**** T150*****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

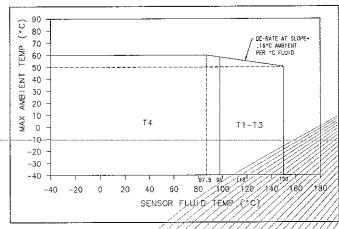
Note 2: The maximum surface temperature for dust is as follows: 7.5:/7/95/C/TA/T/130/C/T3 to T1: T 182 °C.

Ambient temperature range:

//**y**a

/-40 °C up to /+55/°C

Sensor type	
With 2200S	T025*****(J,U)*V***** T050******(J,U)*V***** T100******(J,U)*V***** T150******(J,U)*V*****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

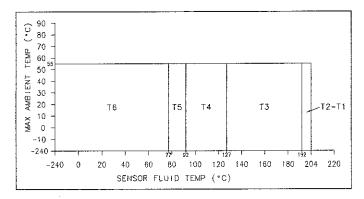
Note 2: The maximum surface temperature for dust is as follows: 14/7/130/40/T3 to The Note 2:

Ambient temperature range:

πá

40 / C/up/to/+60 / C

Sensor type	H
	CMFS010*****(R,H,S,T)*V****
with J-box	CMFS015*****(R.H.S.T)*V****



Note: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

The maximum surface temperature T for dust is as follows: T6 80 °C /T5 /95 °C /T4 /130 °C, T3 195 °C, T2 to T1: 207 °C. The minimum ambient temperature allowed for dust is /40 °C /When marked with ETO 18748 the minimum ambient and process fluid temperature allowed for dust is 50 °C.

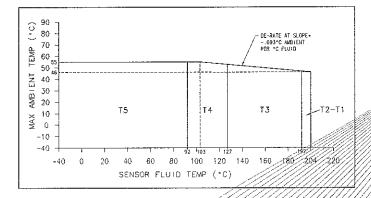
Ambient temperature range:

∕1**⁄**a,

/₋/240 °C up to +55 °C

The use of the sensor at higher ambient temperatures is possible provided that the ambient temperature of the medium taking into account the temperature of the medium taking into account the temperature classification and the maximum operating temperature of the sensor.

Sensor type	HOH I
With 2400S	CMFS010*****(0,1)*V****
	CMFS015*****(0,1)*V****
With FMT	CMFS010*****(K,L,M,N)*V****
	CMFS015*****(K,L,M,N)*V****



Note 1: Use the above graph to determine the temperature class for a given/fluid and ambient temperature.

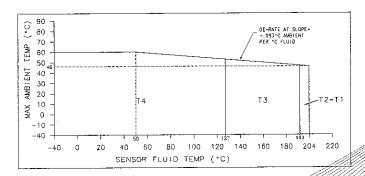
Note 2: The maximum surface temperature for dust is as follows 7.5 T/95 C. 74 T/130 C. T3: T 195 °C, T2 to T1: T 207 °C.

Ambient temperature range:

/**/**78

40 °C/up to +55 °C

Sensor type CMFS010*****(J,U)*V**** With 2200S CMFS015*****(J,U)*V****



Note 1: Use the above graph to determine the temperature class for a given fluid and ambient temperature.

Note 2: The maximum surface temperature for dust is as follows: \(\frac{\pi}{\pi}\) \(T2 to T1: T 207 °C.

Ambient temperature rangé:

40/90 up to +60 °C

Test and assessment report

BVS PP 06.2082 EG as of 29.07.2011

Special conditions for safe use (17)

The sensor without j-box is designed for use in connection with a suitable transmitter, e.g. type 24*******L**** in accordance with BVS 05/E 116/X resp. type 2200\$*****/in accordance with BVS 08 ATEX E 112 X resp. type FMT****** in accordance with BVS 10 ATEX/E 115/X only the assemblage of the sensor and the transmitter guarantees the necessary degrees of protection.

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH 44809 Bochum, 29.07.2011 A 20110075 BVS-Hk/Sch

Certification body

Special servičes unit