**Quick Start Guide**
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# Emerson Plantweb™ Insight

EMERSON

## Contents

Overview....3
System requirements....4
Installation....6
Launching the application....9
Customize system settings....10
Application installation....13
Application configuration....14

# 1 Overview

Thank you for choosing Plantweb Insight. This document guides you through initial set up of the software platform. For more details and configuration information on specific applications, refer to the Plantweb Insight Reference Manual.

Before installing Plantweb Insight be sure you have one of the required virtualization software/hypervisor set up and running correctly. Compatible virtualization softwares/hypervisors are listed in the System requirements section of this document.

# 2 System requirements

Plantweb Insight is delivered as a fully developed virtual machine (e.g. .ova file). Users will receive a complete virtual machine image to install in user provided virtualization software or hypervisors.

The Plantweb Insight virtual machine contains a web server that can be accessed by any web client with network access. All configuration and visualization will be completed from the web browser user interface.

Plantweb Insight can be installed on a network server or PC/laptop. Both installations have the same requirements and installation steps. Network connection settings can be made subject to organization policies. Any pertinent Gateways must be accessible on the network.

Before you begin, verify your system meets the minimum requirements.

## 2.1 Host operating system

**Virtualization software/hypervisor**

- VMware Workstation Pro™ 10 or higher (requirements can be found here)
- VMware vSphere® 5.5 or higher (requirements can be found here)

OR

- Contact Rosemount™ support if utilizing a different virtualization software (Microsoft® Hyper-V®)

## 2.2 Guest operating system

- Processors = 4
- Memory = 16 GB RAM minimum
- Hard drive = 100 GB of free space

## 2.3 Application

**Browsers (recent versions supported)**

- Chrome™ browser
- Microsoft Internet Explorer®

## 2.4 Other requirements

- A DVD drive is required for installations
- A DHCP server is required to assign a valid IP address (static IP address can be configured once connected to the Plantweb Insight web interface)

## 2.5 Gateway compatibility

Plantweb Insight is compatible with Emerson Wireless 1410/1420 Gateways on firmware version 4.7.68 or higher. Plantweb Insight may experience calculation response issues on certain applications when Gateway firmware is not up to date. These may effect the Pump, Heat Exchanger, Air Cooled Heat Exchanger, and Pressure Relief Device applications.

## 2.6 Device compatibility

Emerson devices must be in Emerson Optimized burst configuration. If devices are not set to this, change using a device configuration tool.

Devices without this capability must be in either of the two configuration modes to be compatible with Plantweb Insight:

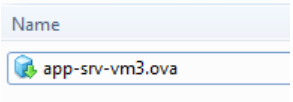
- command 9 and command 48
- command 3 and command 48

# 3 Installation

Two DVDs will be supplied for installations.

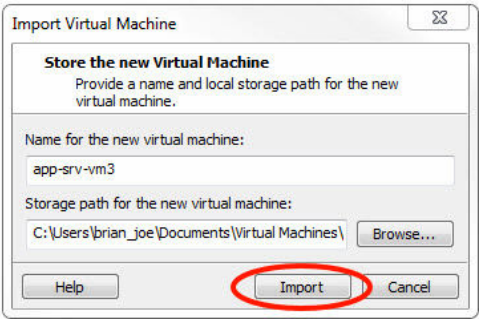
## Procedure

1. Exit/close all programs, including any running in the background.
2. Insert Disk 1 into the DVD drive.
3. Open the ova file. This file will prompt VMware workstation/vSphere to open with an *Import Virtual Machine* pop-up.

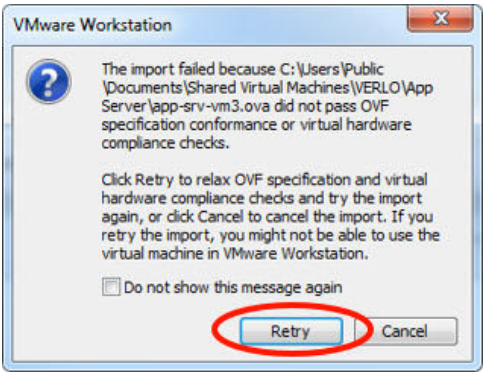



**Note**
This file name may change based on version and type.

4. Name and store the new virtual machine, then select **Import**.

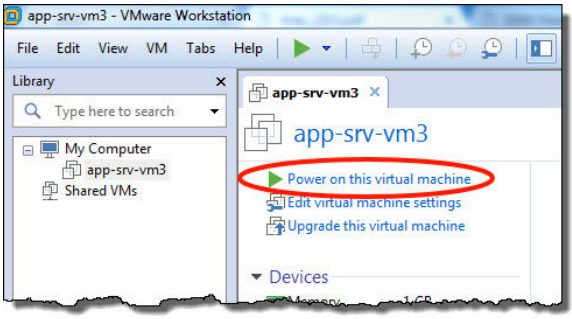



5. If the following message appears, select **Retry**.

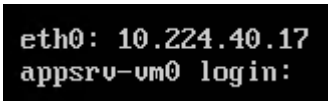



6. Wait for the virtual machine to load.

7. Select **Power on this virtual machine** once the loading process is complete.




8. Find the IP address in the command window.

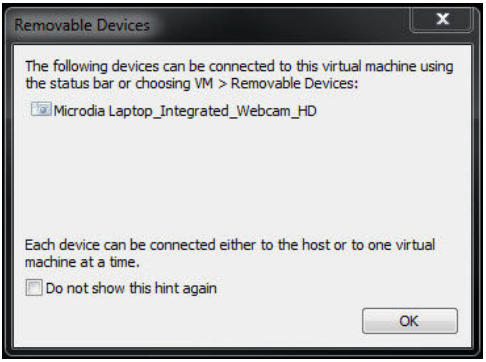



**Note**
This IP address will vary depending on installation. What is shown here will not be your IP address.

**Note**
A DHCP server will be required to assign an IP address. If no DHCP server is available please contact Rosemount support (contact information on last page).

**Note**
The virtual machine login and password are not necessary and will not be provided.

**Note**
A message about features may pop up during the installation process; select **OK**.




**⚠ CAUTION**

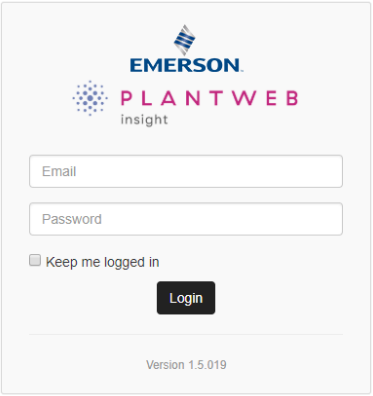
End users should not change any settings except those outlined above. Alterations could impact the performance and functionality of Plantweb Insight.

# 4 Launching the application

The Plantweb Insight web interface can be launched from any of the supported web browsers shown in the system requirements.

### Procedure

1. Open a supported web browser.
2. Input the IP address from Step 8 in the web browser. It is required to use https:// when entering the IP address.




3. Login with the following credentials:
   - Email: **admin@emerson.com**
   - Password: **Default.1234**

   **Note**
   Both the Email and Password are case sensitive.

4. Change your password as prompted. Default settings are listed below but can be changed in ***System Settings***.
   - Minimum length: 12
   - Minimum lowercase: 1
   - Minimum uppercase: 1
   - Minimum numbers: 1
5. Login with the updated credentials.

# 5 Customize system settings

System settings should be configured during the setup of Plantweb Insight.

## 5.1 Add/edit users

### Procedure

1. Navigate to **System Settings** → **Users** → **User Accounts** then select the **Add User Account** button.
2. Enter the user's *Email*, *Role*, and *Password* and select **Save**.

**Table 5-1: Roles and Privileges**

| User role | Privileges |
|---|---|
| Admin | Read and write |
| User | Read |

## 5.2 Password options

Password requirements and settings can be made in the *Password Option* page. These settings include password limitations and requirements (e.g. uppercase letters, lowercase letters, numbers, characters), session idle timeouts, and account locking details.

## 5.3 Connecting to Gateway

### Procedure

1. Navigate to **System Settings** → **Data Sources** → **Gateway Connections**.
2. Select the **Add Gateway** button.
3. Enter the *IP Address*, *Port*, and *Description* and select **Save**.

**Note**
HART-IP™ Port 5094.

Ensure both HART-IP TCP and HART-IP UDP are enabled in the Gateway.

## 5.4 Connecting to an OPC UA® server

### Procedure

1. Navigate to **System Settings** → **Data Sources** → **OPC UA Server** Connections.

2. Select **Add OPC UA Server** button.
3. Enter the *IP Address*, *Port*, *Tag*, and *Description* and select **Save**.

**Note**
The OPC UA Port in Plantweb Insight is designated as **4880** (the OPC UA Server must be set up for this port). Plantweb Insight uses a **opc.tcp://** connection to the OPC UA Server. Tag and Description are used for explanatory reasons only. The IP address field will only accept IP addresses and will not accept full URLs (it assumes the opc.tcp://). The OPC UA Server must be configured to security configuration "none". The OPC UA Server must be configured for "allow anonymous login".

## 5.5 Network configuration (optional)

**Important**
Use caution when making changes to IP network settings. If they are lost or improperly configured, it may be difficult to log into the application. Contact the network administrator for information on the proper IP network settings to apply.

Plantweb Insight contains two network interfaces. Only network interface 1 allows web client access. Network interface 1 will be associated to network adapter 1 of the virtual machine. Network interface 2 will be associated to network adapter 2 of the virtual machine. Network interface 2 is non-routable.

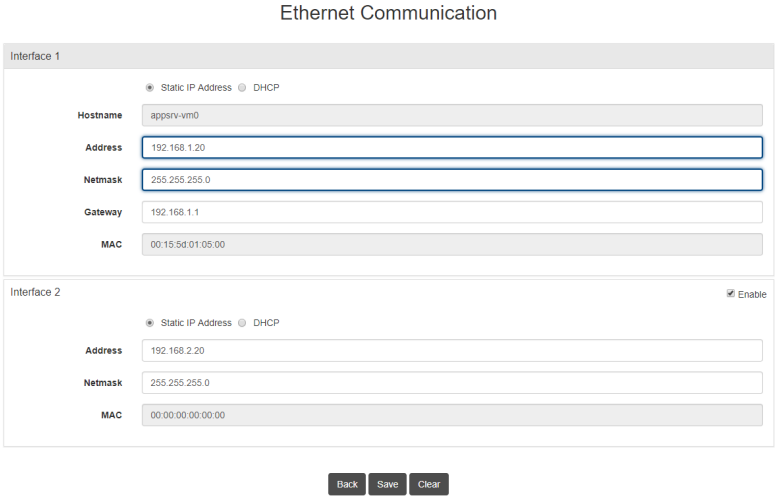
The second network adapter needs to be configured in VMware Workstation/vSphere to activate the functionality of the second network.

To change IP Network Settings:

**Procedure**

1. Navigate to **System Settings → Platform Settings → Ethernet Communication**.
2. To change network interface 1, select **Static IP Address**.
3. Enter the following:
   - Hostname
   - IP Address
   - Netmask
   - Gateway
4. To enable network interface 2, select the enable check box.
5. Select **Static IP Address**.

6. Enter the following:
   - IP Address
   - Netmask
7. Select **Save**.




## 5.6 Backup system settings

After initial installation and configuration, a backup of system settings is recommended.

### Procedure

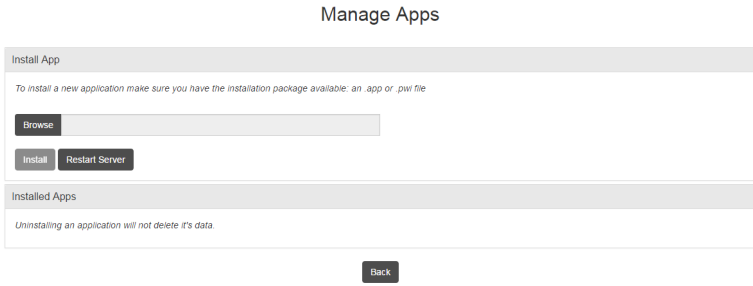
1. Navigate to **System Settings** → **Platform Settings** → **Backup and Restore**.
2. Create a *Passphrase* and select **Save Backup**.

**Note**
Passphrase is required for restoring your system to these settings.

# 6 Application installation

## Procedure

1. Insert Disk 2 into the DVD drive.
2. In the web interface navigate to **System Settings → Platform Settings → Manage Applications**.




3. Under the *Install App* section, select the **Browse** button.
4. Navigate to *Disk 2* and select the pertinent **.app** file and select **Open**.
5. Select **Install**.
6. An action prompt will appear - select **Restart Server** if this is the last app to install. Otherwise, select **Resume** and repeat Step 3-Step 5 for subsequent apps.
7. Navigate to *Home* and the apps installed will appear.

# 7 Application configuration

There are a few configuration steps that are consistent across specific Plantweb Insight applications. These are briefly discussed below. More information about configuration can be found in the Plantweb Insight Reference Manual.

**Note**
All configuration mentioned below is specific to Plantweb Insight. Changes will not be communicated to the Gateway or devices.

## 7.1 Global settings

Each application contains specific global settings that should be set before any asset configuration. Global settings apply to all assets. These settings could include units used for inputs (e.g. inlet pressure units), units used for calculations (e.g. currency), or key performance indicators to be tracked on the dashboard (e.g. overall health index).

## 7.2 Adding assets

There are two ways to add assets. The options are discussed below.

Configuration of devices occurs during addition of assets.

### 7.2.1 Add an asset

Use this method to add a single asset.

**Procedure**

1. Navigate to the *Asset Summary* tab and select the **Add an Asset** button.
2. Complete all information on the *New Asset* modal window and select **Save**.

   **Note**
   Depending on the application, it will likely take a period of time for the calculations to begin processing.

#### Adding a measurement point

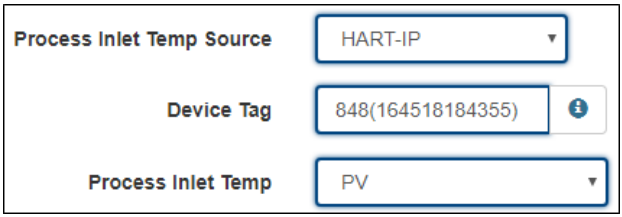
There are multiple ways to configure variables to certain assets. They are described below.

**Procedure**

1. Wireless Device from an Emerson Wireless Gateway.

   Depending on the application, wireless devices can either be added using a drop-down list or a search function.

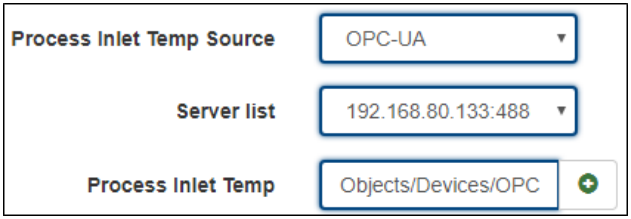
- For applications requiring specific devices, the devices can be added by selecting the appropriate device via a drop-down list. The drop-down list will contain all devices with the pertinent device type.
- For applications with generic measurements (pressure, temperature, flow, etc.) the wireless devices can be added using the following procedure.
    a. Select Source: HART-IP
    b. Begin to type the device tag. After a few characters, a drop-down list of recognized devices will appear. Select the pertinent device.
    c. Select the pertinent variable (ex: PV).




2. OPC-UA tags

   OPC-UA tags can be set up for certain measurement points.

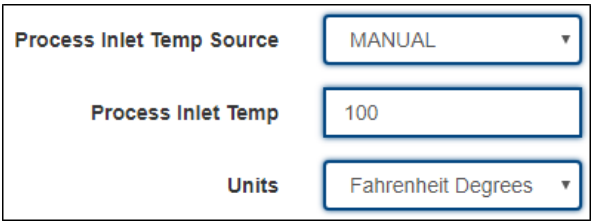
   - Select Source: OPC-UA
   - Select the pertinent OPC-UA server
   - Type in the complete path to the pertinent measurement point (ex: Objects/Devices/OPC_Server1/3051S/PV)
       a. Use forward slashes, "/", for path breaks.
       b. The entire path is case sensitive.




3. Manual input

   Manual inputs should be used sparingly for measurement points. They should only be considered for known consistent conditions (motor speed).

- Select Source: Manual
- Type in the manual value
- Select the pertinent units




### 7.2.2 Import asset config

Use this method to add/edit multiple assets at the same time.

**Procedure**

1. Navigate to the *Asset Summary* tab and select the **Import Asset Config** button.
2. Select **Download asset configuration** and download the csv file.

   **Note**
   If there are no assets configured, select the **Empty File** box.

3. Complete the csv file and save files.

   **Note**
   Data fields have strict requirements for entries; these can be found in **Import Specs File**.

4. Browse and upload the csv file via the *Import Asset Config modal* window and select **Save**.
5. Check all assets were successfully downloaded.
6. If assets fail download, check all fields are filled out correctly and download again.

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