Product Data Sheet
MS-00813-0700-4541, Rev AA
March 2023

Emerson Plantweb™ Insight

Power Module Application

- Visualization and analytics software platform providing strategic interpretation and monitoring of plant assets
- Relevant-time actionable information and insights about abnormal situations, asset status, asset health, energy costs, emissions loss, etc.
- Seamless system integration, simple installation, and minimal configuration or set-up are not dependent on the host system or historian.
- Prepackaged analytics based on decades of process and industry experience
- Human-centered design and a user-tested interface for consistent and intuitive navigation

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Features and benefits

Gain real-time insights into abnormal situations

- Suite of asset monitoring applications identifying abnormal situations and failures using data analytics and models.
- Learn about issues before they impact the bottom line with alerting and failure identification.
- The intuitive and easy-to-read views highlight high-priority, actionable information.

Lightweight, secure, and reliable software package allows seamless integration into current infrastructure

- Easily deployed via a virtual machine.
- Access the interface anytime from a multitude of web browsers.
- Human-centered design considerations allow for quick and intuitive start-up and configuration.
- Integrate with existing wireless ecosystem to expand capabilities and leverage current investment.
- Not dependent on DCS, host system, or historian.

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Monitor one asset or thousands with a fully scalable software package and numerous applications

- Applications are based on key assets such as steam traps, pumps, heat exchangers, pressure relief valves, and many more.
- Start small or monitor all your assets in one spot.
- Integration with other business systems such as data historians.
- Deploy in small, large, or enterprise-wide operations.

User interface

Every application in the Plantweb Insight suite has a similar look and feel for a consistent user experience. The main views can be broken into three layers.

Dashboard

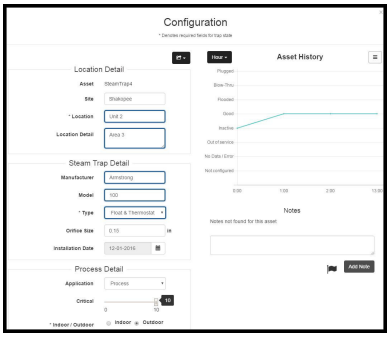
The dashboard page is an umbrella overview of the asset class being monitored. This page will provide an aggregated view of the entire asset class and the most important insights. These insights will vary from application to application, with examples including asset status, asset health, energy costs, emissions loss, critical alerts, etc. A brief trending of these key insights is also provided for historical tracking and trending.

Asset summary

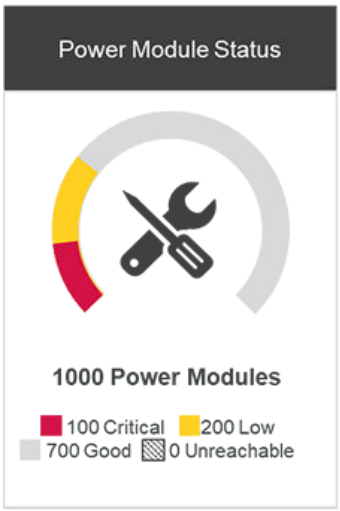
The asset summary page is a tabular view of all assets being monitored. This view provides a similar perspective as the dashboard but on an asset-by-asset basis. This page is fully sortable, searchable, and filterable for quick prioritization and identification. The asset summary page can also be exported via CSV or Excel® for reporting.

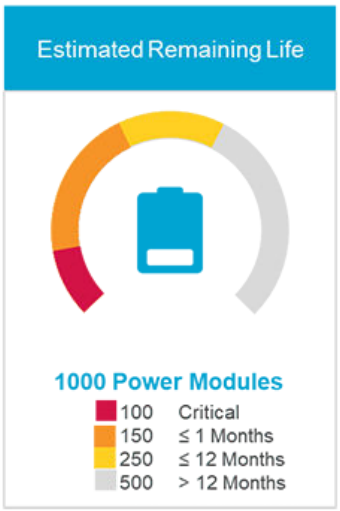
Asset details

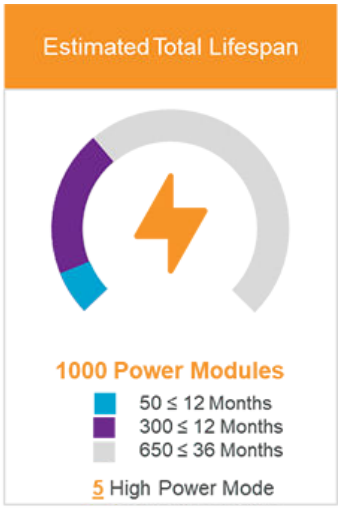
The asset details page provides specific asset details. These details include location, process, application, asset, and device details for each individual asset. It also provides calculated insights such as relevant-time status, health, energy, emissions, additional information, and a brief asset history. A notes section allows users to add notes and flag assets for follow-up.



Power Module application





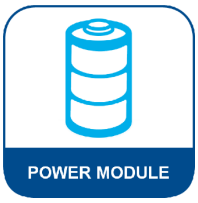


Features

- In-depth monitoring of Emerson power modules
- Provides real-time indication of power module health and diagnostics
- Power module estimated remaining life and total estimated life based on Emerson Wireless expertise
- Plan power module maintenance on estimated remaining life

Calculated insights

- Power module status
  - Good
  - Low
  - Critical
- Power module estimated remaining life
- Power module total estimated life



Related products

- Emerson Black Power Modules
- Emerson Green Power Modules
- Emerson Blue Power Modules
- BP20E Power Modules

Communication specifications

Inputs

HART-IP™ client	Plantweb Insight acts as a HART-IP client for polling information from HART-IP sources such as Emerson 1410S Gateways.

Outputs

Modbus® TCP server	Plantweb Insight contains a Modbus TCP server. Functions, registers, and tags are clearly defined within Plantweb Insight. Calculations, statuses, etc., can be sent to Modbus TCP clients.
OPC UA Server	Plantweb Insight contains an OPC UA server. Calculations, status, etc., can be sent to OPC UA clients.
REST API	Plantweb Insight can provide asset details and alerts via REST API.

Ordering information

Ordering process

1. Build and order your subscription code.
2. You will receive instruction on where to download your application and framework software if you have not already done so.
3. Upon installation of an application onto the framework, the software will instruct you on how to request a license key.
4. A license key will be generated upon request based on your subscription order code.

Note
The subscription duration starts at the time the license key is generated.

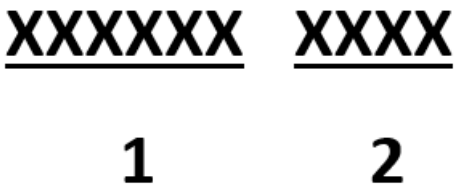
License key

Plantweb Insight applications require a valid license key to be used. License keys are delivered upon placing an order for a subscription order code and submitting a locking ID from the software. Plantweb Insight license keys are provided as a file.

Subscription order code

The subscription order code contains the details related to the software subscription used to generate a license key. This code is not your license key to activate your software. Exact subscription order codes will vary; an example of a typical subscription order code is show in Figure 1.

Figure 1: Subscription code example



1. Required subscription component (7002PM base code)
2. Subscription type (subscription duration and maximum number of assets to be monitored)
   - An asset is a device and its power source
   - Trial licenses are limited to the smallest asset capacity (requires new or existing infrastructure)

Sample subscription code	**7002PM C999**

Emerson Plantweb Insight Power Module application subscription ordering information

Subscription application

Code	Description
7002PM	Plantweb Insight Power Module application

Subscription duration and assets

Code	Description
T001	90-Day trial for up to 50 assets
A999	1-Year subscription for unlimited assets per site
B999	2-Year subscription for unlimited assets per site
C999	3-Year subscription for unlimited assets per site

Specifications

System requirements

Plantweb Insight is delivered as a fully developed virtual machine (e.g. .ova file) and applications are installed once the virtual machine is deployed.

On-Premise Host system

Virtualization software

- VMware Workstation Pro™ 15 or higher (requirements can be found here)

OR

- VMware vSphere® 6.5 or higher (requirements can be found here)

OR

- Microsoft® Hyper-V Configuration version 8.0 or higher (requirements can be found here)

Hardware requirements (minimum)

- Processors = 4 dedicated cores(1)
- Memory = 8 GB RAM
- Hard drive = 250 GB of free space

Hardware requirements (recommended)

- Processors = 8 dedicated cores
- Memory = 16 GB RAM

Cloud environment capability

- Plantweb Insight has the ability to be installed in the cloud on an Emerson Microsoft Azure instance.

Web client

Browsers (recent versions supported)

- Google Chrome™
- Microsoft Edge
- Mozilla Firefox

(1) Most PC operating systems (i.e. Windows, Linux, Mac) will use 1-2 cores.

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