

# PLANTWEB ADVISOR FOR METROLOGY

Managing Devices and Calibrations

## Plantweb Advisor for Metrology Functionality

Plantweb Advisor for Metrology is Emerson's new modular analytics platform. It is built upon the latest technologies, providing a suite of functions and flexibility that are unprecedented within the measurement world today. This next-generation platform provides a level of standardization and automation of complex tasks that integrate seamlessly across measurement assets and engineering support locations.

The enhanced diagnostic, remote monitoring, predictive capabilities and validation provide greater insight into both process and instrumentation, driving clarity and reducing financial exposure and risk.

## Device and Calibration Manager Module

Device calibration is a critical component to ensuring each instrument within a fiscal or custody transfer system is working within its operational limits. The Device and Calibration Manager Module provides a timely reminder for users of scheduled calibrations.

All field devices can be monitored through a modern HTML5 interface showing their specifications, along with associated documentation (for example, data sheets) and spare part details with a single click.

With Device and Calibration Manager, your system calibration scheduling is streamlined and managed, helping you comply with today's stringent audit requirements as well as manage measurement uncertainty to reduce financial exposure. The Device and Calibration Manager Module is integrated with the full suite of Plantweb Advisor for Metrology Modules, giving you a comprehensive and holistic overview of the measurement system.



The Device and Calibration Manager Module helps you manage and streamline system calibrations.

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The Device and Calibration Manager provides:

- A step by step wizard to walk users through the calibration procedure
- A comprehensive reporting engine to archive results
- Temperature, pressure and densitometer device support
- User alerts when instrument calibrations are due
- Multiple base conditions and reporting periods supported
- Tracking of test equipment calibrations

**Densitometer Transmitter Details**

Name	DF1
Make	DENSM001
Model	DENS001
Serial No.	DENS0000
Seal No.	DENSSEAL009
Tolerance	0.0100
Lower Range	0.00 kg/m <sup>3</sup>
Upper Range	3000 kg/m <sup>3</sup>
Flow Computer	F1-101

**Calibration Equipment**

Name	CAL001
Type	DENS
Make	Emerson
Model	CPRESMDL001
Serial No.	CPRES001
Certificate No.	CERT001
Calibration Date	01-Jan-2020, 06:47 AM
Calibration Due Date	31-Jan-2020, 06:47 AM
Gravity Factor	1

**Constant Details**

K0	-109.3226
K1	-4.01627738
K2	0.000409995
K3	341
K4	56.6
K10	-0.0000204
K19	0.0000718
0	0
0	0
0	0
0	0

**Other Density Calculation Inputs**

Basic Temperature	1.222	°C
Line Temperature	0.999	K
Ratio Of Spec. Heats	5.50	bar(g)
Specific Gravity	3.487	

Example Calibration Report

**Device Manager Dashboard**

Result	Device Name	Make	Model	Last Calibration Date	Due Date
●	Pressure Transmitter	Emerson	3051 Coplanar	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Temperature Transmitter	Emerson	Subsea SenCom	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Densitometer Transmitter	Emerson	Micro Motion CDM100P Compact	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Pressure Transmitter	Emerson	3051S MultiVariable	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Temperature Transmitter	Emerson	Rovar Dornboole	Jan 2 2020 6:48AM	Jan 10 2020 6:48AM
●	Densitometer Transmitter	Emerson	MicroMotion CDM100M Compact	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Pressure Transmitter	Emerson	2088 Gauge and Absolute	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Temperature Transmitter	Emerson	211-05-010 High	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Densitometer Transmitter	Emerson	Micro Motion FDM Fern	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Pressure Transmitter	Emerson	2060P Pulp and Paper	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Temperature Transmitter	Emerson	311-30-540 High	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Densitometer Transmitter	Emerson	Micro Motion 2500 Compact	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Pressure Transmitter	Emerson	2051 Wireless In-Line	Jan 1 2020 9:56AM	Jan 20 2020 9:56AM
●	Temperature Transmitter	Emerson	230-30-020 Subsea	01-Jan-2020, 09:56 AM	20-Jan-2020, 09:56 AM
●	Densitometer Transmitter	Emerson	Micro Motion 2700 Field	01-Jan-2020, 09:56 AM	20-Jan-2020, 09:56 AM

Device and Calibration Manager Dashboard

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