

# PLANTWEB ADVISOR FOR METROLOGY

Managing Pulse Meter Uncertainty

## 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.

## Meter Factor Trending Module

Pulse meters require periodic checks and calibrations to ensure they perform optimally. Having an automated, online tool that gives a degree of confidence in the performance of the device. For this purpose, Plantweb Advisor for Metrology offers meter factor trending software. This software module interfaces to the ultrasonic flow meter either directly or via a flow computer/supervisory/DCS, taking the diagnostic data from the device and offers the following functionality.

This software module interfaces to the meter either directly or via a flow computer/supervisory/DCS, taking the meter factor or k-factor data and offering the following functionality:

- Base meter factor curve
- Historic meter factor curve
- Current meter factor curve
- Average and standard deviation limits
- Historic database of proving results

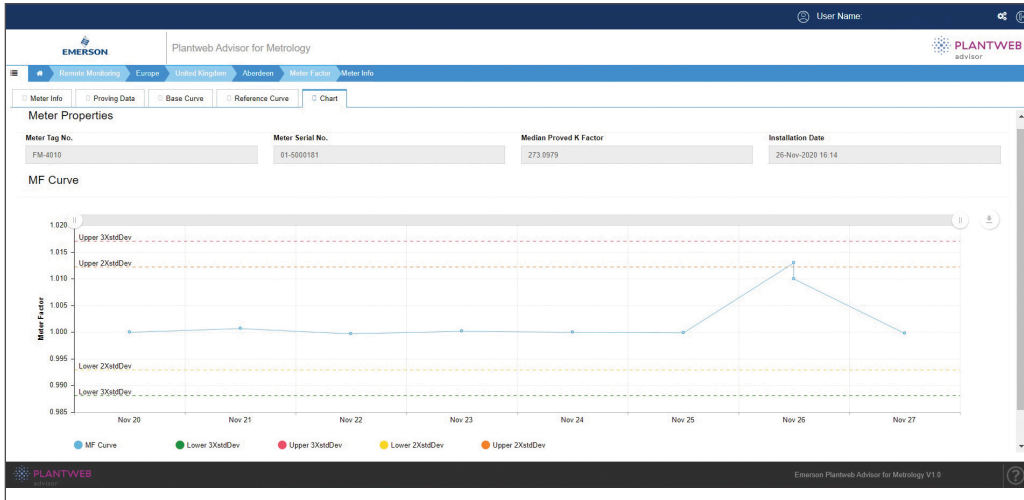


Meter factor trending can detect drifts and deviations from the baseline which allows you to predict failures and plan preventative maintenance before the device fails.

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## Meter Factor Curve Dashboards

A number of dashboards are provided to give at-a-glance performance indication, alongside current and historical trending and configurable reports. Meter Factor trending is integrated with the full suite of Plantweb Advisor for Metrology modules, giving a holistic overview of the measurement system.



Meter Factor Chart

Series Sequence Lifting No.	Series Sequence DateTime	Meter Factor	Pressure	Temperature	Density	Proving Flow Rate
01	20-Nov-2020 10:20	1	45	40	45	4895
02	21-Nov-2020 10:22	1.0007	45	61	68	7551
03	22-Nov-2020 10:23	0.9997	51	61	76	8296
04	23-Nov-2020 10:24	1.0002	51	61	48	8306
05	24-Nov-2020 10:25	1	60	55	80	7349
06	25-Nov-2020 10:27	0.9999	35	40	97	8316
07	26-Nov-2020 10:28	1.013	35	40	85	8387
08	26-Nov-2020 10:29	1.01	35	40	71	8330
09	27-Nov-2020 10:31	0.9998	35	40	98	7364

Meter Factor Proving Data

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