

# PLANTWEB ADVISOR FOR METROLOGY

Remote Monitoring and Predictive Analytics

## Plantweb Advisor for Metrology Functionality

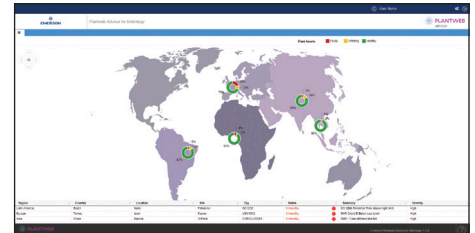
Plantweb Advisor for Metrology is Emerson's new modular analytics platform. It is built upon the latest technologies, providing a suite of functions and flexibility that are unprecedented within the measurement world today. This next-generation platform provides a level of standardization and automation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

## Custody Transfer System Analytics and Predictive Diagnostics

Oil and gas operations are facing the challenge of maintaining and supporting a large metering installed base, in addition to the shortage of skilled workforce with the looming retirement of experts. There is a need for intelligent automation to secure remote access to key system data. Emerson has a solution that addresses these challenges:

- **Remote Monitoring/Un-manned Operations** - Reduces the amount of time personnel have to be at risk
- **Health Assessment Dashboards** - Provide confidence in the measurement data
- **Data Reconciliation** - Made easier with access to verified data
- **System Reliability** - Improved with access to predictive diagnostics
- **Contractual Obligations** - Met with streamlined data validation
- **Uncertainty** - Reduced by utilizing advanced system diagnostics to rapidly detect and correct issues



Our solution is built on a hardware-independent and software-independent modular application platform, supporting Emerson and other vendor devices and apps. Available modules include:

- **Ultrasonic Meter Diagnostic Module**
- **Coriolis Smart Meter Verification Module**
- **Gas Chromatograph Diagnostic Module**
- **Calculation Verification Module**
- **Prognosis Differential Pressure Module**
- **Meter Factor Trending Module**
- **System Uncertainty Module**
- **Mismeasurement Calculation Module**
- **Device and Calibration Manager Module**

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## Remote Monitoring and Predictive Analytics Dashboards

A number of dashboards are provided to give at-a-glance performance indication, alongside current and historical trending and configurable reports.



Remote Monitoring Dashboard

Time	Server Name	Tag	Alarm Text	On	Acknowledged	Level	Suppressed	Disabled	Module	Flag
10/22/2023 - 10:58 AM	Server 1	Modbus-DIM/Modbus-DIM/1	Transmitter Failure Fail	On	Unacknowledged	Medium	Not Suppressed	Enabled	Modbus-DIM/1	🔴
10/22/2023 - 10:58 AM	Server 1	Modbus-DIM/Modbus-DIM/1	Configuration Failure Fail	Off	Unacknowledged	Medium	Not Suppressed	Enabled	Modbus-DIM/1	🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	AsphDistTargetHi	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	TrichDistFail	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	BiRTFail	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	DFTChlFail	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	ExcessWater	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	XtollMaintenancePause	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	ExcessWater	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	XtollMaintenancePause	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	ExcessWater	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	TrichDistFail	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	DFTChlFail	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	AsphDistTargetHi	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	XtollMaintenancePause	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	DFTChlFail	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	BiRTFail	Off	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
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10/22/2023 - 11:52 AM	Server 1	Disturb	XtollMaintenancePause	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴
10/22/2023 - 11:52 AM	Server 1	Disturb	AsphDistTargetHi	On	Unacknowledged	Medium	Not Suppressed	Enabled		🔴

Example of an Alert Dashboard

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