

SMART WIRELESS THUM™ ADAPTER

ROSEMOUNT® 3051S ADVANCED DIAGNOSTICS

WirelessHART

Gain insight with advanced process diagnostics

Enhance quality and improve productivity with Rosemount 3051S Advanced Diagnostics. Measure and log statistical process characteristics to proactively monitor, detect and alert you to abnormal conditions.

The Smart Wireless THUM adapter is an easy way to unleash otherwise “stranded” advanced diagnostics, such as statistical process analysis and data logging, to allow you to prevent abnormal situations and increase plant productivity.



The Rosemount 3051 with the Smart Wireless THUM adapter powers the PlantWeb digital plant architecture by delivering more advanced field intelligence for better decision-making to help you achieve unparalleled efficiency and productivity.

Access to more comprehensive data enable you to:

- Enhance quality and improve productivity
- Enhance availability with proactive statistical process monitoring and trending
- Detect abnormal conditions before causing a major problem

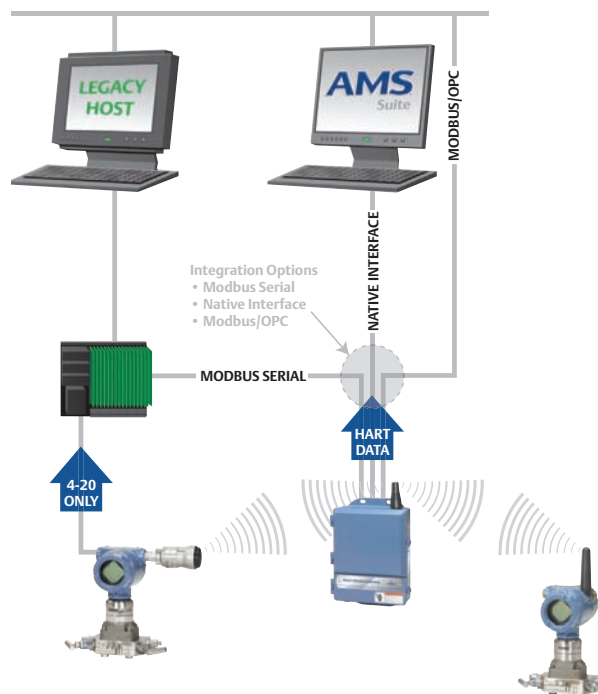
EASY TO USE. EASY TO INTEGRATE.

With the Smart Wireless THUM adapter, you can upgrade existing wired HART devices already installed in your facility to WirelessHART™, gaining wireless access to valuable diagnostic and process data that was previously inaccessible. The THUM will work with existing or new WirelessHART networks – delivering quick and easy access to valuable information.

Industry standard protocols are supported for easy legacy host integration.

AMS® Suite predictive maintenance software helps you to easily plan a secure, reliable wireless network using online tools, while also validating the network against factory-recommended best practices.

Emerson’s Smart Wireless Solutions bring valuable information within reach – easily and cost effectively – delivering better insight into your operation and facility.



Can the THUM deliver statistical process information wirelessly?

Yes, the THUM can provide annunciation of plugged impulse lines, entrained air, and other diagnostic applications configured by the user.

What type of diagnostics information can the THUM deliver?

The 3051S provides both diagnostics alerts and statistical process variables to help you detect abnormal situations which the THUM delivers wirelessly.

Is the wireless update rate fast enough for statistical process analysis?

Since statistical process analysis is done inside the 3051S pressure transmitter, the wireless update rate will not affect diagnostics detection.

ROSEMOUNT®


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Process Management

BETTER INFORMATION FOR IMPROVED PERFORMANCE

The Smart Wireless THUM Adapter can transmit up to four variables and additional HART status information at the user configurable update rate. Access to this new information enables you to more fully optimize your operations for improved performance.

Selectable PV, SV, and TV Variable

Pressure
Module Temperature
Scaled Variable
Standard Deviation
Mean

Important Status Information

Hi/Low Variation Change
Mean Change
Device Alerts
Process Alerts

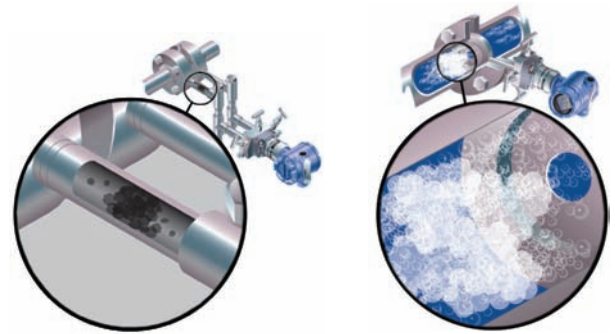
USER CONFIGURABLE INFORMATION

The THUM can also be configured to give device specific information, such as:

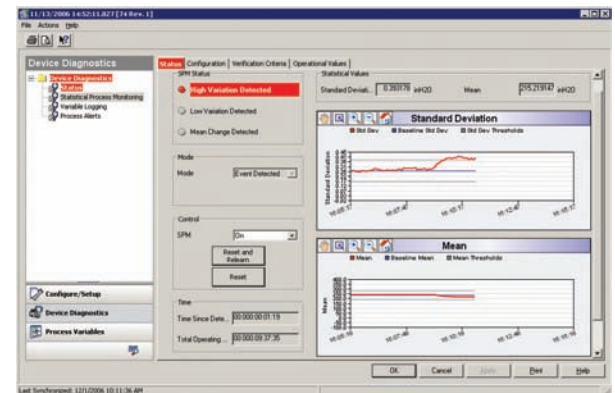
- Time outside pressure sensor and module temperature limits
- Min/Max pressure and temperature
- Time since process alert

TECHNICAL REQUIREMENTS

Voltage drop across THUM: 2.25 Volts at 3.5 mA; 1 Volt at 25 mA
Loop resistance required: 250 Ohms
Power requirements: 14.5 Volts
THUM update rate: 16 seconds to 60 minutes



Plugged impulse line and entrained air application examples.



Statistical process monitoring technology proactively monitors process characteristics to detect and alert you to abnormal situations.

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