SMART WIRELESS THUM™ ADAPTER

ROSEMOUNT® 3051SMV MULTIVARIABLE™ FLOWMETER

WirelessHART

Achieve greater visibility and deliver real results with a better multivariable measurement

Better measurement is the key to better control. The 3051SMV delivers unprecedented performance and capabilities by integrating MultiVariable measurement into the industry-leading, scalable 3051S platform.

With its simplified mass and energy flow measurement, accuracy is increased and faster updates are provided through patented, advanced compensation techniques. The result is better and effortless flow optimization for tighter control.

POWERS PlantWeb

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

Access to more comprehensive data enables you to:

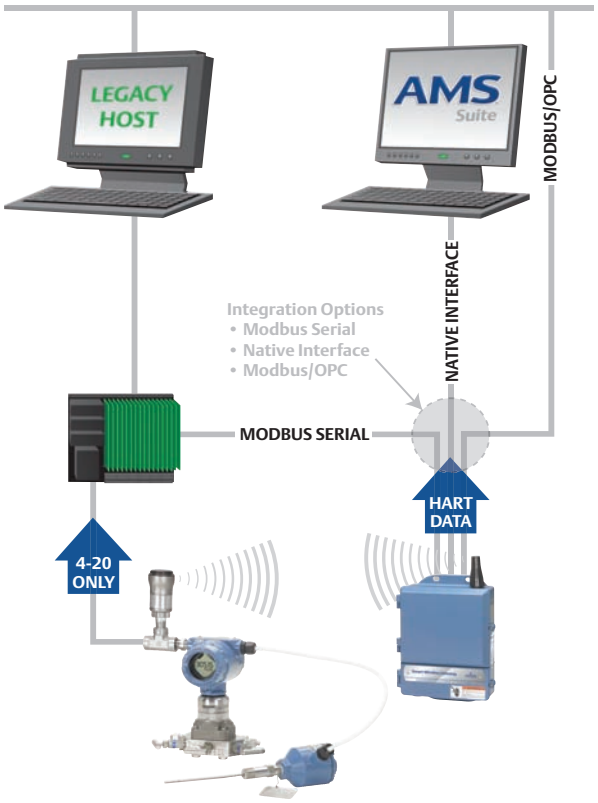
- Enhance quality and improve productivity
- Enhance availability with proactive monitoring
- Detect abnormal conditions before it causes a major problem

EASY TO USE. EASY TO INTEGRATE.

The Smart Wireless THUM adapter, allows you to wirelessly access the full capabilities of the 3051SMV Multi-Variable flowmeter. All you need in addition to the THUM is access to a Smart Wireless Gateway.

All of Emerson's Smart Wireless field network devices can be integrated directly into your existing automation architecture without the need for upfront engineering, site surveys or additional software. Wired or wireless the network looks the same to your operators.

For additional ease of use, the AMS® Suite provides more convenient access to information that you don't have today. Emerson's Smart Wireless technologies put valuable information within reach – easily and cost effectively – to give you better insights into what's happening in your operation.



Can I use the 4-20mA to transmit mass of energy flow information and use the THUM to wirelessly communicate static pressure and process temperature?

Yes, the THUM can provide additional process variable information.

Can I use the THUM to view flow configuration information?

Yes, the flow configuration is stored in the transmitter and can be accessed through the THUM.

What diagnostic information in the 3051SMV flowmeter is available via the THUM?

Measurement quality and limit status, test calculation, back-up temperature status, and SuperModule® temperature.

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Process Management

BETTER INFORMATION FOR IMPROVED PERFORMANCE

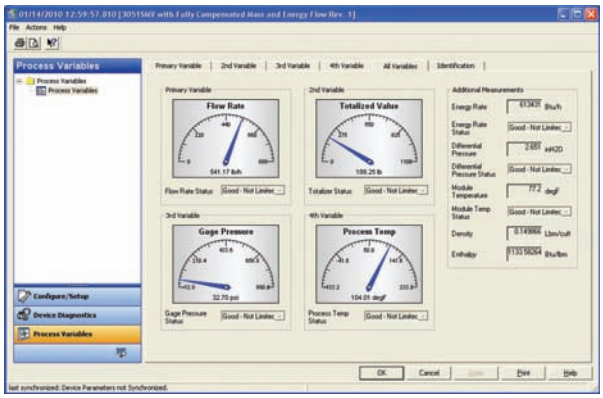
The Smart Wireless THUM Adapter can transmit up to four variables and additional HART status information at the user configurable update rate. Access to this new information enables you to more fully optimize your operations for improved performance.

Process Variables
Mass Flow
Energy Flow
Totalized Flow
Differential Pressure
Static Pressure
Process Temperature
SuperModule Temperature

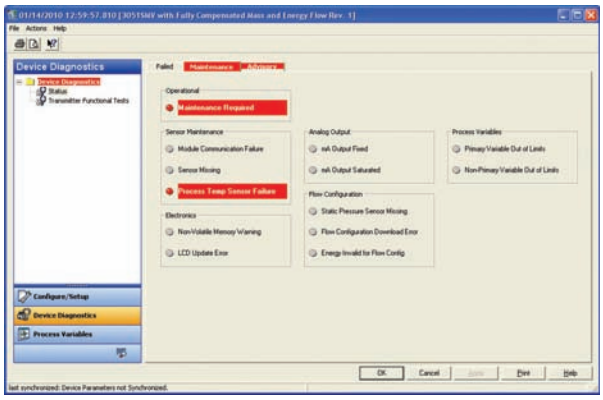
Additional Information
Density
Viscosity
Heating Value/Enthalpy
Gas Expansion Factor
Discharge Coefficient
Velocity of Approach Factor
Reynolds Number

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:	8 seconds to 60 minutes



Start-up and maintenance is further enhanced through real-time access and validation of all flow-configuration variables.



The THUM provides easy access to device diagnostics for better decision making.

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