

Thermo Scientific AutoXP-SMV

Smart multivariable transmitter

The Thermo Scientific™ AutoXP-SMV instrument is built on the field-proven AutoCONFIG platform. Designed to meet the rigorous demands of the oil and gas industry from production to the refinery.

Features

- Ethernet connectivity
- Bluetooth connectivity
- Historical archiving
- Plug and play interface

Founded on the basis of the AutoXP flow computer, the Thermo Scientific AutoXP-SMV Smart Multivariable Transmitter provides accuracy and reliability in hydrocarbon measurement and control.



Thermo Scientific™ AutoXP-SMV



A 3-in-1 Solution

The AutoXP-SMV provides the user with a single sensor that provides 3 critical measurement variables: differential pressure, static pressure and temperature. The SMV is capable of being connected to multiple devices such as flow computers, RTUs, PLCs and also directly to SCADA systems. Default Modbus mapping replicates the ABB™ 266 and Rosemount™ 4088 allowing for simple and error free installation.

Simplified Connectivity and Historical Archives

To maximize efficiency, the AutoXP-SMV has a built in T10/100 ethernet port that simplifies connection to primary devices. In addition to ethernet port the SMV is available with Bluetooth to minimize need for cables during configuration and calibration of the SMV. System performance can also easily be managed by providing historical archiving for all three process variables which can be analyzed for anomalies or custody transfer compliance.

Thermo Scientific™ AutoXP-SMV

General specifications

Processor	32-bit
Program memory	4 MB of flash memory
Data storage memory	SRAM, 2 MB, battery-backed
CPU board communication port	1 RS232, 1 RS232/1 RS485, 1 10Base-T Ethernet port
Input power	10 VDC to 30 VDC
Historical data storage	User configurable, defaulting to 65 days of daily, 35 days of hourly per meter run
Audit trails	User configurable, defaulting to 200 audit events
Alarm log storage	User configurable, defaulting to 200 alarm events
Keypad	4 IR through glass key input
Display	128x65 backlit LCD display; User programmable scroll list and menus

Environmental specifications

Operating temperature	-40°C to +85°C (-40°F to +185°F)
Operating humidity	0-95% RH, non-condensing
Enclosure rating	NEMA 4X/IP67
Certifications	CSA/C-US Class I, Div 1, Groups B, C, D; ambient temperature range of -40°C to +85°C (-40°F to +185°F), temperature code T6 (-40°C to 75°C) T5 (-40°C to 85°C) EN 61326-1: 2013 (Industrial Criteria); FCC 47 CFR Part 15, Subpart B; ICES 003: 2016

Differential Pressure 400"/1500 psia 400"/4500 psig Extended DP Range

Upper Range Limit (URL)	400" H ₂ O	400" H ₂ O
Turndown Ratio	400:1	400:1
Min/Max Span	1.0-400 H ₂ O	1.0-400 H ₂ O
Accuracy ¹	0.0525%	0.04%
Stability (%URL/Year)	.0625	.0625
Response Time	100ms	90ms

COMING SOON

Static Pressure 400"/1500 psia 400"/4500 psig Extended DP Range

Upper Range Limit (URL)	1500 psia	4500 psig
Turndown Ratio	15:1	75:1
Min/Max Span	100-1500 psia	60-4500 psig
Accuracy ¹	0.0550%	0.0375%
Stability (%URL/Year)	0.008	0.016
Response Time	100ms	90ms

COMING SOON

¹Terminal based accuracy-Includes the combined effects for linearity, hysteresis and repeatability

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