

# 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)<br>Measurement Canada, Approval no. AG-0650<br>EN 61326-1: 2013 (Industrial Criteria); FCC 47 CFR Part 15, Subpart B; ICES 003: 2016 |

### Differential Pressure

|                         | 400"/1500 psia           | 400"/4500 psig           | 2000"/4500 psig          |
|-------------------------|--------------------------|--------------------------|--------------------------|
| Upper Range Limit (URL) | 400" H <sub>2</sub> O    | 400" H <sub>2</sub> O    | 2000" H <sub>2</sub> O   |
| Turndown Ratio          | 400:1                    | 400:1                    | 400:1                    |
| Min/Max Span            | 1.0/400 H <sub>2</sub> O | 1.0/400 H <sub>2</sub> O | 5/2000" H <sub>2</sub> O |
| Accuracy <sup>1</sup>   | 0.0525%                  | 0.04%                    | 0.0375% Reading          |
| Stability (%URL/Year)   | 0.0625                   | 0.0625                   | 0.0625                   |
| Response Time           | 100ms                    | 90ms                     | 90ms                     |

### Static Pressure

|                         | 400"/1500 psia | 400"/4500 psig | 2000"/4500 psig |
|-------------------------|----------------|----------------|-----------------|
| Upper Range Limit (URL) | 1500 psia      | 4500 psig      | 4500 psig       |
| Turndown Ratio          | 15:1           | 75:1           | 75:1            |
| Min/Max Span            | 100/1500 psia  | 60/4500 psig   | 60/4500 psig    |
| Accuracy <sup>1</sup>   | 0.0550%        | 0.0375%        | 0.0375% Span    |
| Stability (%URL/Year)   | 0.008          | 0.016          | 0.016           |
| Response Time           | 100ms          | 90ms           | 90ms            |

<sup>1</sup>Terminal based accuracy-Includes the combined effects for linearity, hysteresis and repeatability

#### USA

27 Forge Parkway  
Franklin, MA 02038  
Ph: (713) 272-0404  
Fax: (713) 272-2273  
orders.process.us@thermofisher.com

#### India

Industrial Unit No.101+130,  
Plot No.C-56/1, TTC Industrial  
area, MIDC-Turbhe,  
New Mumbai 400 703, India  
Ph: +91 82 9199 0337  
INinfo@thermofisher.com

#### China

8/F Bldg C of Global Trade Ctr,  
No.36, North 3rd Ring Road,  
Dong Cheng District  
Beijing, China 100013  
Ph: +86 10 84193588  
info.eid.china@thermofisher.com

#### Europe

Ion Path, Road Three,  
Winsford, Cheshire CW73GA UK  
Ph: +44 1606 548700  
Fax: +44 1606 548711  
sales.epm.uk@thermofisher.com

Find out more at [thermofisher.com/autoxpsmv](http://thermofisher.com/autoxpsmv)

**ThermoFisher**  
SCIENTIFIC