



The Multivariable Difference

Its combination of high performance, multimeasurement versatility, and popular Modbus communications makes the difference. So the Foxboro IMV25 multivariable transmitter makes an extremely valuable measurement solution for your gas field needs.

- 3-in-1 transmitter
- Ideal for platform or wellhead application
- Supplies absolute and differential pressure, plus temperature measurement
- Comes with Modbus protocol — easy communication with RTU
- Use fewer transmitters, less wiring, fewer process penetrations
- Select low-profile (for Coplanar) or traditional mounting
- Take advantage of unmatched 5-year warranty
- Get best-in-class delivery in days, not months



THE FOXBORO DIFFERENCE

New instrumentation ideas — applied at the point where the control system meets your process — can make all the difference. They allow you to greatly improve your operation's economic, safety, and environmental performance.

Others may imitate our successful designs of the past.

Today, Foxboro instrumentation furnishes further innovations instead. We offer a broad range of pressure transmitters, flowmeters, analytical instruments, and other measurement product lines ideal for your applications.



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IMV25 Multivariable
Transmitter for
Gas Production

Multiple Measurement Advantages at Wellhead, Separator, Pipeline, or Tank



Measure Gas Flow Rates Three Ways With One Meter

The Foxboro IMV25 multivariable transmitter is an ideal solution for gas field use. It delivers accurate, affordable, temperature- and pressure-compensated measurement of gas flow rates. Use it to replace separate static pressure, differential pressure, and temperature transmitters — with one unit that digitally communicates all three measurements.

Apply the IMV25 with confidence at the wellhead and for natural gas custody transfer to pipelines. Its available Modbus protocol also provides easy communications with RTU and flow computing platforms.

This transmitter employs an innovative silicon sensor. Its advanced design enables users to utilize fewer transmitters, less wiring, and fewer shutoff valves or other process penetrations. Results: fewer power issues and stocking problems.

Digital communications allow remote configuration, calibration, and monitoring, while an exclusive PC-based configurator software package offers convenient setup. Additionally, the IMV25 provides a choice of traditional “right-angle” or popular low-profile Coplanar™ mounting.

The IMV25's long lifespan begins with best-in-class rapid, dependable delivery, and is backed by an unbeatable 5-year standard warranty.

All at a price that's actually less than the competition's.

- No special cabling — use what you have
- No dip switches — configure via LCD/pushbuttons
- No proprietary RTD — use off-the-shelf models
- No mounting constraints — choose traditional or Coplanar

Exceptionally high performance

- Accuracy to $\pm 0.05\%$ of span
- Excellent long-term stability; drift less than $\pm 0.05\%$ of URL per year over 5 years for both DP and P measurement
- Minimized static pressure effect on DP; pressure compensates DP measurement
- Excellent ambient temperature effect compensation due to characterization and microprocessor-based compensation



SPECIFICATIONS

Ranges (available combinations of DP and AP)

Sensor Code	inH ₂ O	DP (a)	kPa	psia	AP (b)	MPaa
LG	0-0.5 to 0-10		0-0.12 to 0-2.5	0-10 to 0-500		0-0.07 to 0-3.4
AG	0-3 to 0-30		0-0.75 to 0-7.5	0-10 to 0-500		0-0.07 to 0-3.4
BD	0-2 to 0-200		0-0.5 to 0-50	0-3 to 0-300		0-0.02 to 0-2.1
BE	0-2 to 0-200		0-0.5 to 0-50	0-30 to 0-1500		0-0.21 to 0-10
GG	0-2 to 0-400		0-0.5 to 0-100	0-10 to 0-500		0-0.07 to 0-3.4
GE	0-2 to 0-400		0-0.5 to 0-100	0-30 to 0-1500		0-0.21 to 0-10
CD	0-10 to 0-840		0-2.5 to 0-210	0-3 to 0-300		0-0.02 to 0-2.1
CE	0-10 to 0-840		0-2.5 to 0-210	0-30 to 0-1500		0-0.21 to 0-10

(a) Elevated and suppressed zero ranges are also acceptable — refer to product specification sheet for details.

(b) Higher pressure ranges, Code H to 3000 psia (20 MPaa) and Code F to 5300 psia (36.5 MPaa) also available.

Measured and transmitted outputs

- Absolute pressure (configurable for gauge pressure)
- Differential pressure
- Process temperature (from external RTD)
- Sensor temperature (from internal sensor)
- Electronics temperature (from internal sensor)

Sensor material

316L ss or Hastelloy C

Sensor fill fluids

Silicone oil or Fluorinert oil

Electronics enclosure

Epoxy-coated aluminum or 316 ss; weatherproof per IEC IP66 and NEMA 4X; explosionproof and flameproof certifications

Supply voltage

9-30 V dc

Output signal and configuration

Digital output, configurable using host processor, Model PCMM configurator, or optional LCD indicator with onboard pushbuttons

Process temperature measurement and limits

Measurement — DIN/IEC, 2-, 3-, or 4-wire, 100 ohm, platinum resistance temperature detector (RTD)
Range limits — -200° and +850° C (-328° and +1562° F)

Process cover and connector material

316 ss or Hastelloy C