

I/A Series

IMV25 & IMV30 Multivariable Transmitters

Description

These intelligent two-wire transmitters provide precise and reliable multiple measurements.

The Model IMV25 provides measurements of absolute pressure and differential pressure, sensor and electronics temperatures, and process temperature (from an external RTD).

The Model IMV30 adds comprehensive density and flow rate calculations, making it an outstanding mass flowmeter when used with any of a variety of differential pressure-producing primary flow devices.

They utilize digital communications to transmit their multiple measurements and provide a 4 to 20 mA analog output signal assignable to any measurement or calculated value.

Use Advantages of Digital Communications

The IMV25 allows you to realize the cost savings of multiple measurements communicated digitally via HART and FoxCom protocols and via newer FOUNDATION fieldbus and PROFIBUS protocols as they develop and expand in usage.

Compensated Flow Rate Measurement

The IMV30 makes flow rate calculations, compensated for changes in process pressure and temperature. Continual calculation of process fluid density allows calculation of mass or standard volume flow rate in the transmitter.

Furthermore, the IMV30 provides full dynamic compensation for all variables affecting the flow rate calculation.

Easy Configuration

A PC-based configuration software package, Model PCMV, provides easy transmitter setup for both the IMV25 and IMV30 models. When used with the IMV30, it allows selection of primary device type, flow and density equations, pipe and element size and material, fluid properties, and flow rate type (mass, standard volume, or actual volume). It also provides for calibration, digital reading of all variables, diagnostics, and equation test functions.



Features/Benefits

- Field-proven silicon sensor technology
- Function, performance, and cost breakthrough for superior value
- Digital communications using either HART or FoxCom protocols plus assignable 4 to 20 mA output signal
- One transmitter replaces three separate transmitters, saving on initial purchase costs
- Reduced process penetrations save money and lessen chance of fugitive emissions
- Fewer transmitters, less wiring, and fewer shutoff valves reduce installation costs and provide greater reliability
- Flow rate values from the transmitter (IMV30) eliminate allocation of costly system resources for flow rate calculations
- Reduced cost for fully compensated flow rate measurement (IMV30) means easier justification for compensated measurement, providing better process measurement and control
- Offered in both 316 ss and Hastelloy C materials
- Meets many testing agency requirements for hazardous area installations