

FLOW MONITOR 1500 SERIES

DESCRIPTION

The **1500 Series** is an economical, full-featured digital flow monitor. The two-line, eight-character alphanumeric display can be user-configured to display flow rate and flow total separately or simultaneously. The **1500 Series** is easily field-calibrated for use with any Data Industrial flow sensor. It may also be calibrated for a pulse, sine wave, or optional 4-20 mA analog flow signal.

The **1500 Series** provides two TTL pulse outputs: one for flow rate alarm and one for flow total. The resolution of these pulse outputs may be user programmed. An optional analog output is also available for flow rate, and optional mechanical relay outputs are available for flow rate alarm and totalization. The front panel includes one LED for power status and one LED for impeller status, totalizer status, or alarm status. All calibration information, units of measure, and flow totals are stored in nonvolatile memory that does not require battery back-up for data retention.

Programming is menu driven. All data is entered using the password-protected LCD and keypad on the face of the unit. **1500 Series** software contains eight engineering units for indicating flow rate and four for indicating flow total. The **1500 Series** is available in either a NEMA 4X panel-mount or a NEMA 4 wall-mount version.



FEATURES

- **Field calibrated**
- **Menu-driven programming**
- **Flow rate and flow total display**
- **Password protected calibration data**
- **Wall mount or panel mount**

SPECIFICATIONS

Power	12-24 VDC	Options	
Consumption	3W max	Relays	Two optional relays: 1 operates from rate and 1 from totalizer SPST contacts, 3A @ 250 VAC or 30 VDC max resistive load
Display	Eight characters by two lines, alphanumeric, dot matrix LCD display	Rate	High rate and low rate alarm functions Adjustable 0-120 sec delay (in 10-sec increments) for activation of alarm functions Latched feature
Operating temp	-40° to 158°F (-40° to 85°C)	Totalizer	User-configurable output to any units
Dimensions		Analog output	Current sinking, isolated 4-20 mA
Panel mount	3.78"H x 3.78"W x 3.23"D (9.6 x 9.6 x 8.2 cm)	Min voltage	7 VDC
Wall mount	4.72"H x 4.80"W" x 3.55"D (12.0 x 12.2 x 9.0 cm)	Max voltage	30 VDC
Pulse output	Two open-collector transistor pulse outputs, one for rate and one for total, user-configured to any units Adjustable 100 ms to 5.0 sec pulse output width in 100 ms increments (totalizer only) Max sinking current: 300 mA @ 24 VDC		

ORDERING INFORMATION

MODEL	DESCRIPTION
1500	Flow monitor with LCD display
INPUTS/OUTPUTS	
0	No analog output
3	0-10 VDC input for flow meter with analog output
5	4-20 mA analog output
RELAY OUTPUTS	
0	Standard - 2 TTL pulse outputs
1	Two mechanical relays (1 - flow rate alarm, 1 - totalizer)
MOUNTING	
0	Panel mount, NEMA 4X front panel
1	Wall mount, NEMA 4

1500 - 5 - 0 - 1 **Example:** 1500-5-0-1 Flow monitor with 4-20 mA analog output, NEMA 4 wall-mount

Order Data Industrial flow sensor separately