

EP4200 Series

Electronic Prover Rate/Totalizer

Description

The EP4200 combines the features of a Rate/Totalizer with electronics that can filter out unwanted fluctuations in the flow rate by scaling and averaging incoming signals. The EP4200 delivers consistent flow rate readings, so that systems with pulsating or erratic flows can be controlled. Flow Technology flowmeters and the EP4200 provide a control feedback system for pulsating flow devices, such as plunger and diaphragm metering pumps.

Traditional electronic averaging cannot disregard false signals and are slow to react to sudden changes. However, the Electronic Prover package in the EP4200 analyzes each incoming pulse to determine if it is within an acceptable range of input. This allows it to ignore random pulses and react quickly to significant changes in the flow rate. Scaled 4–20 mA output of the flow rate reading from the EP4200 can be sent to PLCs or other devices that control the system.

Features

- Filters out unwanted signal fluctuations
- Display Total, Rate, or Grand Total
- Two presets
- Up to 8 KHz pulse input frequency
- 16-point linearization
- Security lockout
- 2-way RS232/422 serial communication available
- Scalable 4–20 mA output of rate
- NEMA 4X front panel



EP4200 Electronic Prover Rate/Totalizer

Specifications

Display	8-digit, 0.55" high,
	15-segment LED
Input Power	110 VAC $\pm 15\%$ or 12–27 VDC
	220 VAC $\pm 15\%$ or 12–27 VDC
Maximum Current	250 mA DC or 3.2 VA at rated AC voltage
Output Power (AC-Powered	Units only)
Standard	+12 VDC at 100 mA. Separate isolated 12 VDC at 100 mA to allow ±12 VDC or ±24 VDC regulated ±5% worst case
Optional	+5 VDC at 100 mA
Memory	EEPROM stores data if power is lost
Temperature	
Operating	+32° F to +130° F
	$(0^{\circ} \text{ C to } +54^{\circ} \text{ C})$
Storage	-40° F to +200° F
	(-40° C to +93° C)
Pulse Input (3A, Standard)	High impedance pulse input. Open or 0–1 VDC (low), 3–30 VDC (high), 10 K impedance, 8 KHz max. input speed (min. on/off 25 usec)

Model Numbering System



Dimensions



Specifications (cont'd)

* Standard Configuration



Specifications are for reference only and are subject to change without notice.

Local Representative:





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