

PulseFlow – PF100

Pulse to 4-20mA Flow Converter

PulseFlow™ – PF100

Introduced in 1997, The PulseFlow™ rate converter is a microprocessor based electronic device that outputs and displays meter flow rates and their totalized usage using the meter's pulse output. It does this by measuring the rate of an input pulse train and varies its display and 4-20mA current output depending on the rate of those pulses. PulseFlow™ accepts either a square wave voltage pulse, a current sinking transistor pulse, or a dry contact closure pulse.

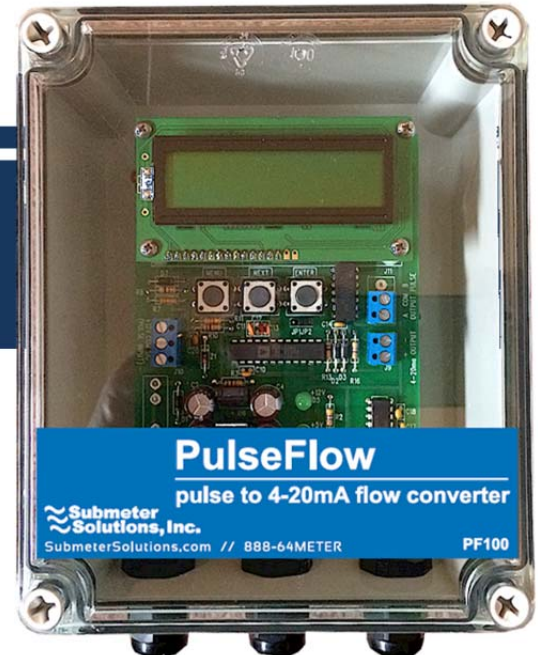
Exclusive “look ahead” and sophisticated floating point algorithms allow for output current to respond quickly and smoothly to changes in flow rate. Output current is a high precision current loop, 4-20 mA DC signal designed to meet the needs of the industrial control market. Calibration occurs on powerup allowing for precise 4-20 mA measurements.

PulseFlow™ also has an LCD to display the calculated meter flow rate and totalized usage. The user programmable parameters provide for a wide readout range with configurable engineering units. The resettable, scalable counter factors and totalizes the input pulses. The factored pulses are re-transmitted using a Form A relay output.

Configuration is via the RS-232 port or with the use of the 3 menu pushbuttons. The RS-232 port allows the use of standard communications software to program the parameters.

PulseFlow™ Specifications

Power Requirements	12-24VDC, 500mA
Signal Input	Dry contact, 100ms minimum pulse width Open collector output
Outputs	4-20mA DC flow rate signal Form A contact providing 100ms output pulse 12 VDC supply for pulse transmitter
Input Pulse Rate	5.0 to 999.9 pulses per minute (full scale 20mA output)
Process Display	Scaler Corrected Volume Flow Rate
Counter	Resettable 6 digits with prescaler 8 character label
User Interface	16 character x 2 line LCD alphanumeric display 3 menu key switches 9 pin RS232-D port, 2400 baud
Memory Backup	Non-volatile
Temperature Rating	0-60 °C, 32-140 °F
Enclosure	NEMA 4X, 5.5" x 6.5" x 4"



ABOUT SUBMETER SOLUTIONS

Submeter Solutions was established in 1999 in Washington State. Our business focus is manufacturing, selling, servicing, and installing meters and submetering equipment for water, natural gas, and electricity. Our offices are located in Issaquah, WA and support submetering projects and monthly meter reading and billing clients across the US.

We are a distributor for a full range of metering products that are sold via our on line store at

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