

Displaying 800 Series

Technical Product data sheet

titan



Features

- Low cost
- 4 digit rate/total display
- PVDF body
- 1- 2% FSD
- Sapphire bearings
- Hall Effect sensor
- 6 Flow ranges
- Auto cal feature
- Pulse output
- 10 Bar rating
- 8 mm hose or $\frac{3}{8}$ " tails*
- 0.1% Repeatability
- 8 to 12 V dc
- 55°C Max
- 0.081 kg

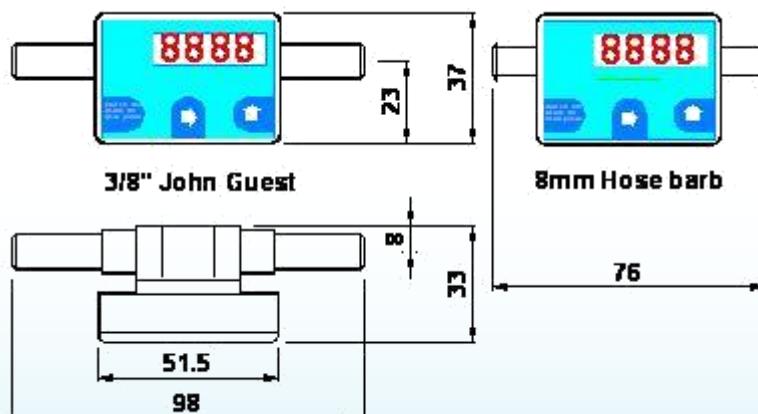
* John Guest style connections

Ideal for

- ◆ Laboratory tests
- ◆ Cooling equipment
- ◆ Semiconductor plant
- ◆ OEM applications

Displaying 800 Series

This displaying flowmeter incorporates the 800 series flowmeter with a programmable display to give both total and rate. It has four digit 8mm high LCD display that can be configured to display rate in engineering units per second, minute or hour. The total function has a selectable decimal point and may be reset at any time by pressing and holding the reset button. It is designed to give high performance and competitive pricing with 6 flow ranges from 0.05 to 15 litres per minute. It's totally non-metallic wetted components make this the ideal choice for the metering of aggressive chemicals including ultra-pure water. The standard inlet tubes are either barbed to accept an 8mm hose or $\frac{3}{8}$ " John guest push-on connections. For OEM use alternatives are available. The bearings are made of sapphire for long life and reliability, the body is moulded PVDF as standard and the 'O' ring seal is typically Viton™ although alternatives are available.



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Displaying 800 Series

Order Codes

Flow range	803
L/min	815
	845
	<u>865</u>
	810
	824
O'ring mtl	<u>V</u> - Viton™ N - Nitrile E - EPDM S - Silicon
Flow switch	<u>O</u> - Standard
Body mt'l	<u>P</u> - PVDF O - Special
OEM Code	<u>O</u> - Standard U - Uncalibrated
Display	<u>Disp</u>

e.g. **865-V O P-O-Disp** has a flow range of 0.25 to 6.5 L/Min, Viton™ seal as standard, PVDF bodied flowmeter with a 6 point traceable water calibration. The "John Guest" fittings must be specified separately if required. The display units and decimal points must be specified at the time of ordering. The meter may be purchased un-calibrated as the program has a self calibrate facility that simply requires the passing of a known volume of liquid through the meter.

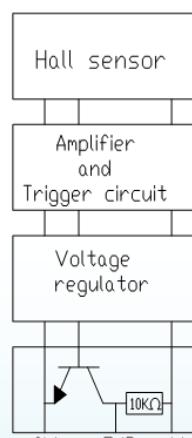
Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor
803	0.05 - 0.5	2.0	142	17000
815	0.12 - 1.5	2.0	175	7000
845	0.20 - 4.5	1.5	260	3500
865	0.25 - 6.5	1.5	230	2100
810	0.30 - 10.0	1.0	235	1420
824	0.50 - 15.0	1.0	245	980

Displaying 800 Series

At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings and it contains chemically resistant ceramic magnets that are detected through the chamber wall by a Hall Effect detector. The output is a stream of NPN pulses that are directly interfaced with the electronic display. This combination of materials and technology ensures a long life product with reliable operation throughout. The 4 digit display is a seven segment 7mm high LED with a flashing colon for flow rate indication. Current consumption is up to 80mA and the unit will operate from 8 to 12V dc, the recommended PSU is 9 volts at 100mA. There is a 5 volt pulse output for interfacing with other computers or recording instruments.

Standard Materials of Construction

Body and cap - PVDF
 'O' Ring seal - Viton™
 Magnets - Ceramic
 Bearings - Sapphire



Sensor block diagram