

Water Flow Transmitter

DS1013



Features:

- Flow range of 0.01 cm³/min to 10 L/min
- Response time of 20 milliseconds typical
- Turndown ratio of 50:1
- Push button interface
- Accuracy of $\pm 2\%$ of full scale rating
- With optional battery pack, device becomes fully portable
- RS232 or RS485 interface

Description:

The L series water flow transmitters are designed for demanding DI water, or other clean water applications. Differential pressure, fluid pressure and temperature are measured in the laminar flow channel. This information is then used to calculate the volumetric flow rate of the liquid. All of these parameters are then dynamically displayed and output via the RS232 interface. An analogue output is also included.

Applications:

- DI water or other clean water applications

Process Connections	10-32 UNF 1/8" and 1/4" NPT female
Accuracy	$\pm 2\%$ FSD
Repeatability	$\pm 2\%$ FSD
Response Time	20 ms
Turndown Ratio	50:1
Pressure Drop	0.8 psi
Pressure	100 psig max
Temperature	50°C max
Wetted Materials	Stainless Steel, Viton, Silicon Gel, Nylon & Polyetherimide
Power Supply	7 - 30 Vdc, 30mA typical
Outputs	0 - 5 Vdc (4 - 20mA or 0 - 10 Vdc optional)
Electrical Connection	2m long 8-core lead
Display	Graphic LCD
Digital Output	RS-232
Dimensions	0.01 - 500cm ³ /min 27 x 61 x 99mm 0.02 - 10 L/min 27 x 61 x 104mm

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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SKU	Description
FFLM0000	Flow Range 0.01 - 0.5 cm ³ /min with 10-32 UNF Connections
FFLM0001	Flow Range 0.02 - 1 cm ³ /min with 10-32 UNF Connections
FFLM0002	Flow Range 0.04 - 2 cm ³ /min with 1/8" NPTF Connections
FFLM0003	Flow Range 0.1 - 5 cm ³ /min with 1/8" NPTF Connections
FFLM0004	Flow Range 0.2 - 10 cm ³ /min with 1/8" NPTF Connections
FFLM0005	Flow Range 0.4 - 20 cm ³ /min with 1/8" NPTF Connections
FFLM0006	Flow Range 0.6 - 30 cm ³ /min with 1/8" NPTF Connections
FFLM0007	Flow Range 1 - 50 cm ³ /min with 1/8" NPTF Connections
FFLM0008	Flow Range 4 - 200 cm ³ /min with 1/8" NPTF Connections
FFLM0009	Flow Range 10 - 500 cm ³ /min with 1/8" NPTF Connections
FFLM0010	Flow Range 0.02 - 1 L/min with 1/8" NPTF Connections
FFLM0011	Flow Range 0.04 - 2 L/min with 1/4" NPTF Connections
FFLM0012	Flow Range 0.06 - 3 L/min with 1/4" NPTF Connections
FFLM0013	Flow Range 0.1 - 5 L/min with 1/4" NPTF Connections
FFLM0014	Flow Range 0.2 - 10 L/min with 1/4" NPTF Connections

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