

MASS FLOW CONTROLLERS

TLFC SERIES – Flow Rate & Totalizer LCD Display – Flow Rate With or Without LCD Display

- ±1% Accuracy
- Linear Output
- Thermal Technology
- For Using in Non Corrosive Gas
- For Flow Rates up to 50 SLM
- Power Supply Included



The NEW-FLOW Thermal Mass Flow Meters provide high performance. Thermal Technology offers advantages in accuracy, sensitivity and turn quality components and the latest technology are combined to provide reliable, compact meters and controllers. The TLFC Series comes With or Without an LCD Display; or Flow Rate with Totalizer LCD Display. All models come with linear 0-5VDC and 4-20mA output. The TLFC Series measures the mass flow rate of gases in 18 ranges from 0-10 SCCM to 0-50 SLM as shown in the range table. The TLFC Series combines a mass flow transducer with an electromagnetic proportional valve. Valves are not recommended as shut off valves. Controllers use a 0-5VDC linear set-point signal supplied from the local set-point pot or from a remote source.



Technical Data

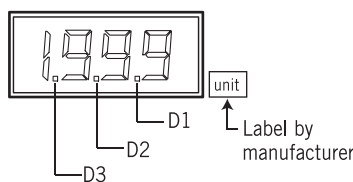
- Type:** Without LCD Display; Flow Rate with LCD Display; Flow Rate with LCD Display & Blue Back Lighted; Flow Rate with Totalizer LCD Display & Blue Back Lighted
- Wetted Parts Material:** Standard flowbody--SS316, Tapcon, option available. O-ring-- Viton
- Output Signal:** 0-5 VDC Linear min. load 1000Ω or 4-20 mA Linear, loop resistance 500Ω
- Input Power:** 24VDC standard; optional power supply 15VDC 115VAC, 220VAC @500mA
- Accuracy:** ±1% F.S. (including linearity)
- Turn Down Ratio:** 100:1
- Repeatability:** ±0.15% F.S. or Better
- Electric Connection:** 9 Pin Sub "D"
- Process Connection:** ¼"NPT female
- Control Signal:** Integral or 0-5 VDC
- Control Valve:** Electromagnetic N/C (Norm. Closed)
- Range:** 0-10 SCCM to 50 SLM (24VDC); 0-10 SCCM to 20 SLM (15VDC)
- Max. Pressure:** SS316– 500 psig; Tapcon– 250 psig
- Temperature Range:** 0~50°C
- Response Time:** 1 Second
- Temp. Coefficient:** 0.05% Full Scale per 1°C or Better
- Pressure Coefficient:** 0.01% Full Scale per PSIG or Better
- Flow Unit:** Kg, GAL, Nℓ, Nm³, cc, ℓ, M³
(Flow rate with LCD display: Label by manufacturer; Flow rate with totalizer LCD display: Unit LCD display)
- Weight:** app. 1.35 kg with power supply; app. 1.5 kg with power supply & totalizer

Operating Differential Pressure

- FS ≤5 SLM** (0.5 kg/cm² ~ 3 kg/cm²)
Low Differential Pressure Specification Depend on types of gas and flow rates to be used.
- 5 SLM < F.S < 20 SLM (1 kg/cm² ~ 3 kg/cm²)
- 20 SLM < F.S < 50 SLM (2 kg/cm² ~ 3 kg/cm²)

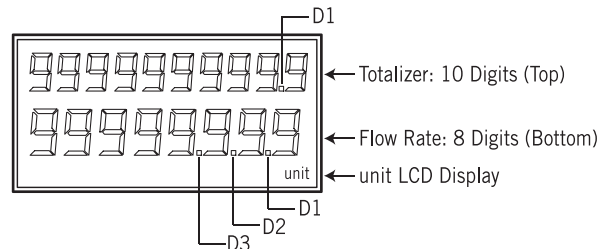
Display Digital Decimal Point Function

Flow Rate with LCD Display:



Range	Decimal Point
0 ~ 1.999	D3
2.0 ~ 19.99	D2
20.0 ~ 199.9	D1
200 ~ 1999	None

Flow Rate with Totalizer LCD Display :



Range Table

Code	SCCM	Code	SLM	Code	SLM
00	0-10	06	0-1	12	0-25
01	0-20	07	0-2	13	0-30
02	0-50	08	0-5	14	0-35
03	0-100	09	0-10	15	0-40
04	0-200	10	0-15	16	0-45
05	0-500	11	0-20	17	0-50
18	Custom Flow Rate				

NOTE.

*Please notice that the max. flow rate is 50 SLM.

