

MASS FLOW CONTROLLERS

With or Without LCD Display

TLFC SERIES

±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, and all models come with linear 0-5VDC and 4-20 mA 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 0-5 VDC linear set-point signal supplied from the local set-point pot or from a remote source.

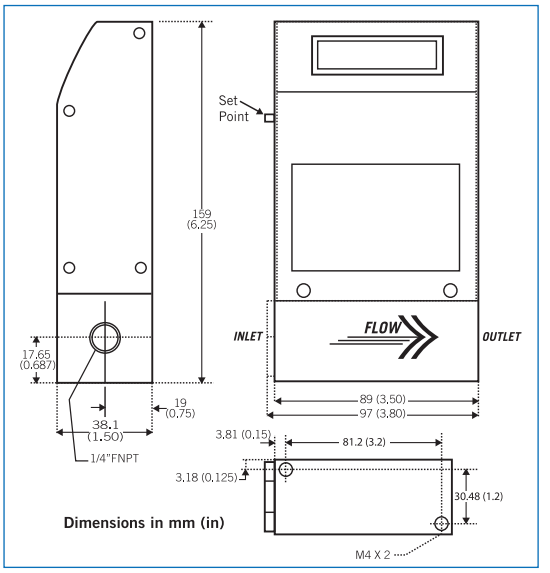
Technical Data

Wetted Material: Standard flowbody– SS316; option available. O-ring– Viton
Output Signal: 0-5 VDC Linear min. load 1000Ω or 4-20 mA Linear, loop resistance 500Ω
Input Power: 24 VDC standard; optional power supply 15 VDC 115 VAC, 220 VAC @500mA
Accuracy: ±1% FS (including linearity)
Turn Down Ratio: 100:1
Repeatability: ±0.15 FS 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 (24 VDC); 0-10 SCCM to 20 SLM (15 VDC)
Max. Pressure: 500 psig (SS316); 250 psig (Tapcon-plastic)
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 Svale per PSIG or better
Weight: app. 1.35 kg with power supply

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 (*Please notice that the max. flow range is 50 SLM.)				

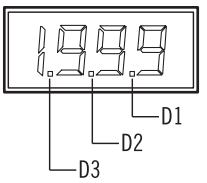
Dimensions



Operating Differential Pressure

F.S ≤ 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



Range	Decimal Point
0 ~ 1.999	D3
2.00 ~ 19.99	D2
20.0 ~ 199.9	D1
200 ~ 1999	None

Ordering Information

TLFC	Code	Flow Range
	00~17	Please refer to the measure range table.
	18	*Custom size (please directly fill in the requested range.)

Code	Wetted Material		
A	SS316	T	Tapcon-plastic

Code	Process Connection
1	¼"NPT(F)

Code	Display		
W	With display	0	Without display

Code	Output Signal
	(1) 0-5 VDC (2) 4-20 mA

Code	Control Signal		
A	Integral (Manual operating by set point)	B	0~5VDC (from a remote source)

Code	Input Power
	(1) 24VDC (2) 15VDC

Code	Power Supply for 24VDC
	(1) With (2) Without

Code	D.P.
	_____ kg/cm²

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