

# MASS FLOW CONTROLLERS

TIME 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 200 SLM Power Supply Included

The NEW-FLOW Thermomal 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 TMFC 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 TMFC Series measures the mass flow rate of gases in 3 ranges from 0-100 SLM to 0-200 SLM as shown in the range table. The TMFC 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, option available.

O-ring— Viton

Output Signal: 0-5 VDC Linear min. load  $1000\Omega$  or 4-20 mA Linear,

loop resistance  $500\Omega$ 

**Input Power:** 24VDC standard **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: ½"NPT female Control Signal: Integral or 0-5 VDC

Control Valve: Electromagnetic N/C (Norm. Closed)

Range: 0-100 SLM to 0-200 SLM Max. Pressure: 500 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, N\ell, Nm3, cc, \ell, M3

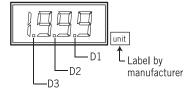
(Flow rate with LCD display: Label by manufacturer; Flow rate with totalizer LCD display: Unit LCD display)

Weight: app. 3.27 kg with power supply

app. 3.41 kg with power supply & totalizer

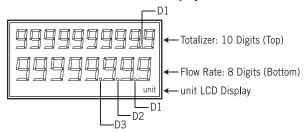
## Display Digital Decimal Point Function

#### 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

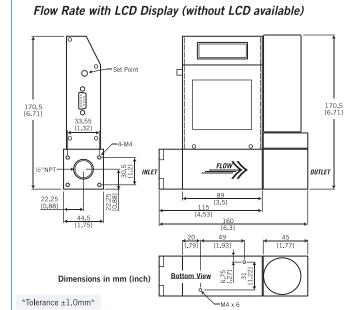
#### Flow Rate with Totalizer LCD Display:

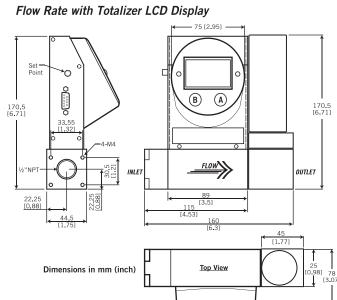


# **Operating Differential Pressure**

Low Differential Pressure Specification Depend on types of gas and flow rates to be used. 100 SLM < F.S < 200 SLM (2 kg/cm<sup>2</sup> ~ 3 kg/cm<sup>2</sup>)

### **Dimensions**







# Range Table

Code	SLM
00	0-100
01	0-150
02	0-200
03	*Custom Flow Rate

# Ordering Information

TMFC	Code	Flow Ra	nge									
	00	0~100 \$	100 SLM									
	01	0~150	SLM									
	02	0~200	SLM									
	03	*Custor	om range (please directly fill in the requested range)									
		Code	Wetted Parts Material									
		Α	SS316									
			Code	Proces	s Conn	ectior	1					
			1	½"NP	½"NPT(F)							
				Code	Dis	play						
				W				CD Disp				
				В	_						ack Lighted	
			T Flow Rate with Totalizer LCD Display & Blue Back Lighted  O Without LCD Display									
				0					nal			
					Со	de	Output					
				(1) 0~5 VDC (2) 4~20mA   Code Control Signal								
							Code					
						-	A Integral (manual operating by set point)  B 0~5 VDC (from a remote source)					
						L	B	Cod		Input Po	<u> </u>	
								Cou		(1) 24VE		
										Code	Power Supply for 24 VDC	
										Code	(1) With (2) Without	
											Code D.P.	
											kg/cm <sup>2</sup>	
											ng/cm	
TMFC	V	▼	▼	<b>▼</b>	<u> </u>		▼	T *	$\overline{}$	▼	Complete Ordering Code	



mail@sightflow.com.au Tel: 1800 539220

Mob: 0400 938611

NOTE.
\*Please noteice that the max. flow rate is 200 SLM.