

MASS FLOW CONTROLLERS

TOTAL SERVICE — 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 or FFKM available

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

loop resistance 500Ω

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: 1/2"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

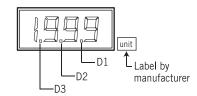
Flow Unit: Kg, GAL, Nl, Nm3, cc, l, M3

(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

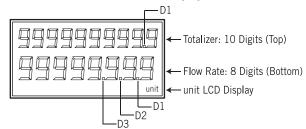
Display Digital Decimal Point Function

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:

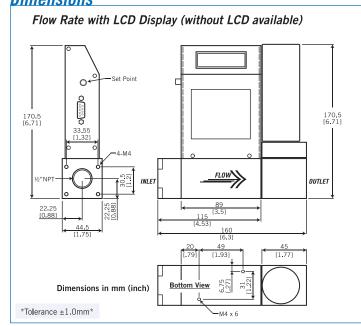


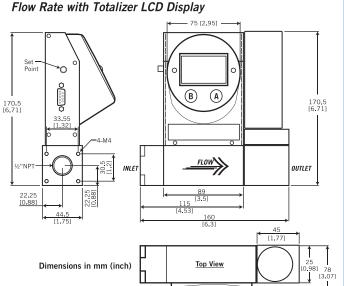
Operating Differential Pressure

100 SLM < F.S < 200 SLM (2 kg/cm² ~ 3 kg/cm²)

Low Differential Pressure Specification Depend on types of gas and flow rates to be used.

Dimensions





Range Table

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

Ordering Information

TMFC	Code		Flow Range								
	00	0~100 \$									
	01	-	-150 SLM								
	02	0~200	D~200 SLM								
	03	*Custom	m range (please directly fill in the requested range)								
		Code	Wetted	tted Parts Material							
		Α	SS316	(Viton o-ri	ng)	B SS316 (FFKM o-ring)					
			Code	Process Connection							
			1	½"NPT	(F)						
				Code	Display	,					
				W	Flow Ra	ate with Lo	CD Display				
				B Flow Rate wtih LCD Display & Blue Back Lighted							
				T	Flow Rate with Totalizer LCD Display & Blue Back Lighted						
				0	Without LCD Display						
					Code Output Signal						
					(1) 0~5 VDC (2) 4~20mA						
						Code	Code Control Signal				
						Α	Integral	Integral (manual operating by set point)			
						В	0~5 VDC (from a remote source)				
							Code Input Power				
							(1) 24VDC				
Co		Code	Power Supp	ply for 24 VDC							
								(1) With (2) Without		(2) Without	
									Code D).P.	
									_	kg/cm²	
V	V	V	V	V	V	V	\	V	V		
TMFC					·				Co	omplete Ordering Code	
										,	

 $[\]begin{tabular}{ll} NOTE. \\ * Please noteice that the max. flow rate is 200 SLM. \\ \end{tabular}$