MASS FLOW CONTROLLERS

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

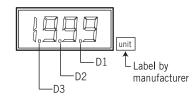
Flow Unit: Kg, GAL, Nl, Nm3, cc, l, M3

(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

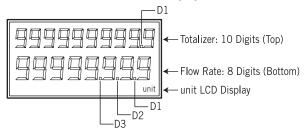
Display Digital Decimal Point Function

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:

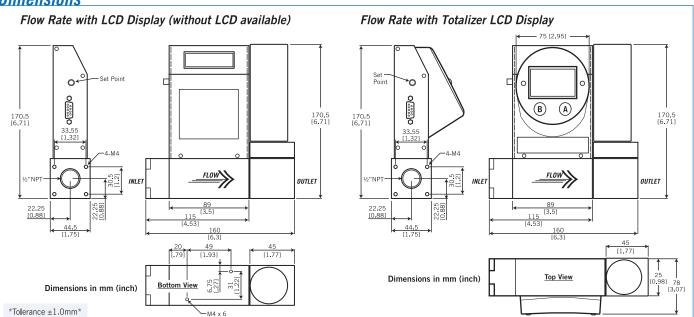


Operating Differential Pressure

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

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

Dimensions



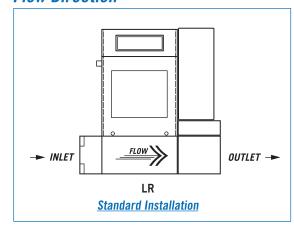
Range Table

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

Ordering Information

TM	IFC												
	•	Code	Flow Range										
		00	0~100 SLM										
		01	0~150 \$	0~150 SLM 0~200 SLM *Custom range (please directly fill in the requested range)									
		02	0~200 \$										
		03	*Custom										
			Code	Code Wetted Parts Material									
			Α	SS316	(Viton o-r	ing)	В		SS316 (FFKM o-ring)				
				Code	Process Connection								
	1 ½"NPT(F)												
					Code	e Display							
					W Flow Rate with LCD Display								
					В	Flow Rate wtih LCD Display & Blue Back Lighted							
			T Flow Rate with Totalizer LCD Display & Blue Back Lighted						ck Lighted				
					O Without LCD Display								
						Code Output Signal							
					(1) 0~5 VDC (2) 4~20mA								
							Co	de	Control Signal				
	A Integral (manual operating by set point)					by set point)							
							Е	3	0~5 VDC (from a remote source)				
								Code Input Power					
									(1) 24VDC				
										Code	Power S	upply for 24 VDC	
											(1) With	(2) Without	
											Code	D.P.	
												kg/cm²	
1	V	V	₩	₩	₩	₩	1	7	+	₩	₩		
TM	1FC											Complete Ordering Code	

Flow Direction



- Please follow the direction of arrow "→" on the label to install. (As shown on the left is the standard installation.)
- **「Do NOT」 install the controller type by "Vertical ♠ or ♥".**

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