



MASS FLOW CONTROLLERS

TIFE SELLED – 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 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 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.

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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);

ange: 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, N \ell, Nm3, cc, \ell, M3

(Flow rate with LCD dispaly: 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

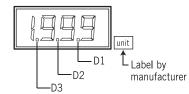
 $\textbf{FS} \leq \textbf{5} \ \textbf{SLM} \ (0.5 \ \text{kg/cm}^2 \sim 3 \ \text{kg/cm}^2)$

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)

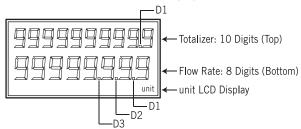
Display Digital Decimal Point Function

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							

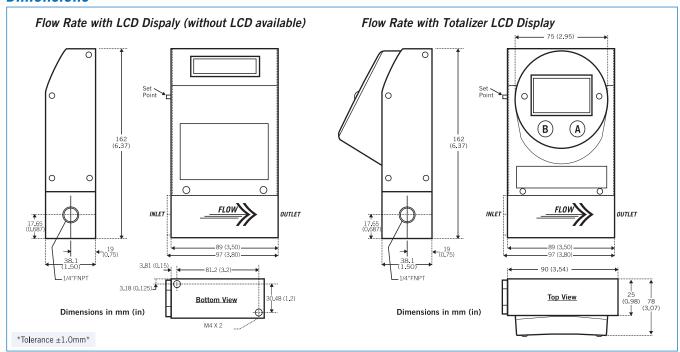
NOTE.

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



TLFC

Dimensions



Ordering Information

UIU	rdering Information												
TLF	-C	Code	Flow Range										
		00~17	Please refer to the measure range table.										
		18	*Custom	om range (please directly fill in the requested range)									
			Code	Wetted	tted Parts Material								
			Α	SS316		T Tapcon-Plastic							
				Code	Process	Con	nectio	n	1				
				1	1/4"NPT	(F)							
	Code Display												
						W Flow Rate with LCD Display							
	B Flow Rate wtih LCD Display & Blue Back Lighted							d					
					Т	T Flow Rate with Totalizer LCD Display & Blue Back Lighted O Without LCD Display Code Output Signal (1) 0~5 VDC (2) 4~20mA					ck Lighted		
					0								
						Code Control Signal							
								A Integral (manual operating by set point)			by set point)		
							B 0~5 VDC (from a remote source) Code Input Power (1) 24VDC (2) 15VDC				urce)		
											15VDC		
	Code Power Supply for		upply for 24 VDC										
					(1) With	th (2) Without							
												Code	D.P.
													kg/cm ²
	,	V	V	V	V		\	V		\	V	₩	
TLF	С												Complete Ordering Code



Tel: 1800 539220 Mob: 0400 938611