# MASS FLOW METERS

TIF SINGS — 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 100 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 TLF Series comes two type: With or Without an LCD Display; or Flow Rate with Totalizer LCD Display. All models come with linear O-5VDC and 4-20mA output. The TLF Series measures the mass flow rate of gases in 23 ranges from 0-10 SCCM to 0-100 SLM as shown in the range table.

### 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 or FFKM available

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

loop resistance  $500\Omega$ 

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 Range: 0-10 SCCM to 0-100 SLM Minimum Pressure: 40" H20

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, Nℓ, Nm³, cc, ℓ, M³

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

Weight: app. 1.08 kg with power supply

app. 1.22 kg with power supply & totalizer

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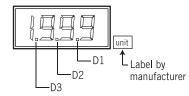






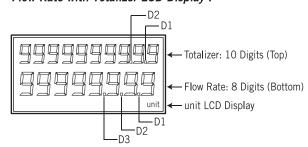
### Display Digital Decimal Point Function

Flow Rate with LCD Display:

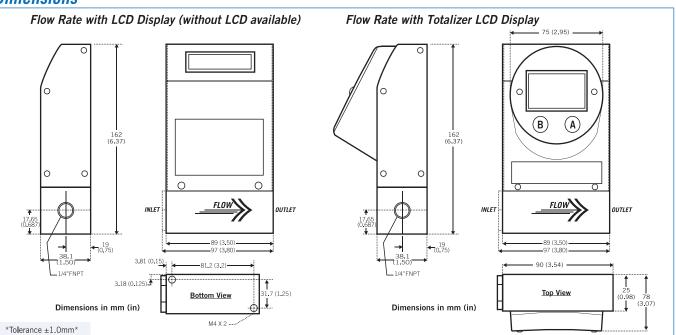


Range	Decimal Point				
0 ~ 1.999	D3				
2.0 ~ 19.99	D2				
20.0 ~ 199.9	D1				
200 ~ 1999	None				

### Flow Rate with Totalizer LCD Display:



### **Dimensions**



## Range Table

Code	SCCM	Code	SLM	Code	SLM	
00	0-10	06	0-1	14	0-35	
01	0-20	07	0-2	15	0-40	
02	0-50	08	0-5	16	0-45	
03	0-100	09	0-10	17	0-50	
04	0-200	10	0-15	18	0-55	
05	0-500	11	0-20	19	.9 0-60	
		12	0-25	20	0-65	
		13	0-30	21	0-70	
				22	0-75	
		_		23	0-100	
				24	*Custom Flow Rate	

NOTE.
\*Please noteice that the max. flow rate is 100 SLM.

### Ordering Information

TLF	Code	Flow Ra										
1	00~23	Please refer to the measure range table.										
	24	*Custom range (please directly fill in the requested range)										
	27	Code Wetted Parts Material										
						2 00	216 /55//	l a rimal	т	Toncon		antion
		A		(Viton o-rin			316 (FFKM	ro-ring)	Т	Tapcon	0	option
			Code		Connectio	n						
			1	1/4"NPT(	(F)							
				Code	Display							
				W Flow Rate with LCD Display  B Flow Rate with 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 Input Power							
					(1) 24 VDC (2) 15 VDC							
	Code Power Supply for 24 VDC											
							5540	(1) With (2) Without				
								(1) WILLI	(Z) WILI	out		
*	*	*	*	*	*	*	+					
TLF								Complete	e Ordering	Code		