# MASS FLOW METERS With or Without LCD Display

# TLF SERIES

±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 Thermal 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 with or without an LCD display, and all models come with linear 0-5 VDC and 4-20 mA 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

Wetted Material:

Standard flowbody- 316 Stainless Steel, Option-Tapcon

(Max. pressure) 10 bars 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: 24 VDC Standard, optional power supply 15

VDC 115 VAC, 220 VAC @500mA **Accuracy:** +/- 1% FS (including Linearity)

Turn Down Ratio: 100:1

Repeatability: +/- 0.15% FS or better Electric Connection: 9 Pin Sub "D" Process Connection: 1/4" NPT Female Range: 0-10 SCCM to 0-100 SLM Minimum Pressure: 40" H<sub>2</sub>O

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

Weight: app. 1.08 kg with power supply

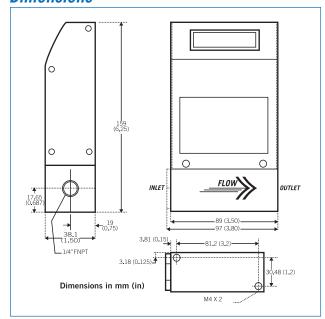
# Range Table

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	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 notice that the max. flow rate is 100 SLM.



### **Dimensions**



## Ordering Information

TLF	Code	Flow	Rang	е						
	00~23	Please	e refer	to the m	o the measure range table.					
	24	*Cust	*Custom size (please directly fill in the requested range)							
		Code	Wetted Material							
			(A) SS316 (T) Tapcon (O) Option							
			Code Process Connection							
			1 1/4" NPT (F)							
			T	Code	Display					
				W	With di	ith display				
			İ	0	Withou	t display	y t Signal SVDC (2) 4-20 mA Input Power			
					Code	Output				
						(1) 0-5				
						Code				
							(1)24VDC (2)15 VDC			
							Code	Power Supply for 24 vdc		
							(1)	with		
							(2)	without		
*	\ \	*	. 🔻	*		\	*			
TLF										