

Approvals:



CONNECTION

**1/2"NPT**  
Female Thread

FLOW RANGE (N<sub>2</sub>)

0 ~ 100 SLM  
↓  
0 ~ 250 SLM

FLUID

**Non-Corrosive**  
**Dry Gases**

### SPECIFICATION

<b>MODEL</b>	TMF
<b>APPLICATION</b>	Non-Corrosive Dry Gases
<b>FLOW RANGE</b>	0 ~ 100 SLM ... 0 ~ 250 SLM
<b>PROCESS CONNECTION</b>	1/2"NPT Female Thread
<b>ACCURACY</b>	< 1% F.S. / < 1.5% F.S.
<b>REPEATABILITY</b>	< 0.15% F.S.
<b>RESPONSE TIME</b>	< 1 Second
<b>MATERIAL</b>	Body : SS316 O-Ring : Viton / FFKM
<b>OUTPUT SIGNAL</b>	DC4-20mA / DC0~5V
<b>MAX. PRESSURE</b>	34.4 Bar
<b>GAS TEMPERATURE</b>	0 ... 50°C
<b>POWER SUPPLY</b>	24VDC / 15VDC
<b>ELECTRIC CONNECTOR</b>	9 Pin D-Sub
<b>FLOW DIRECTION</b>	Left to Right / Bottom to Top / Top to Bottom



FLOW | PRESSURE | TEMPERATURE | AC | DC | BATTERY | CONTACT | DISPLAY

### DISPLAY

Code B



Code T



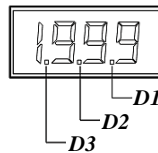
Code O



Code	Display
B	Flow Rate with Blue Back-Lighted LCD
T	Flow Rate & Totalizer with Blue Back-Lighted LCD
O	Without LCD

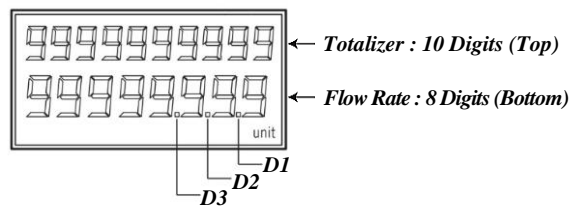
### DECIMAL POINT

Flow Rate with LCD

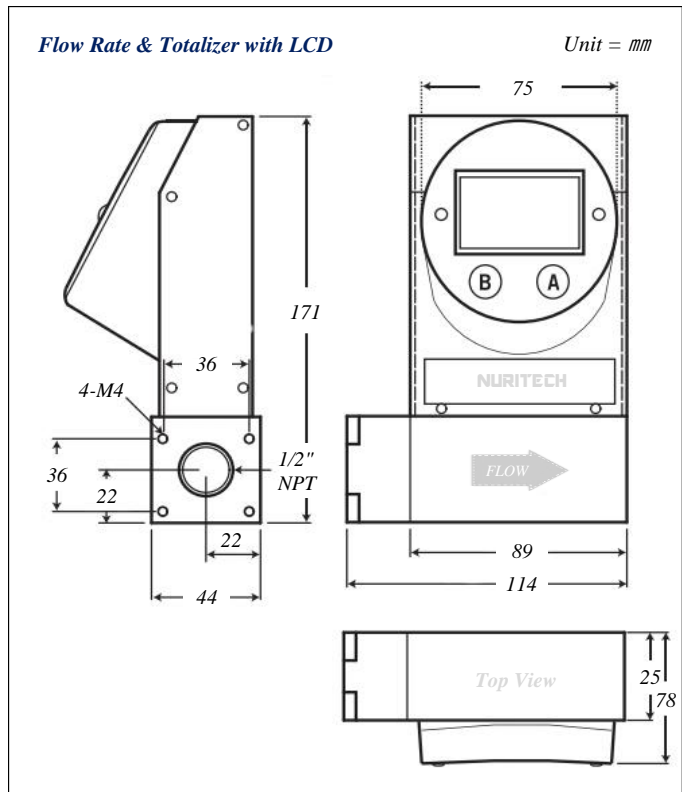
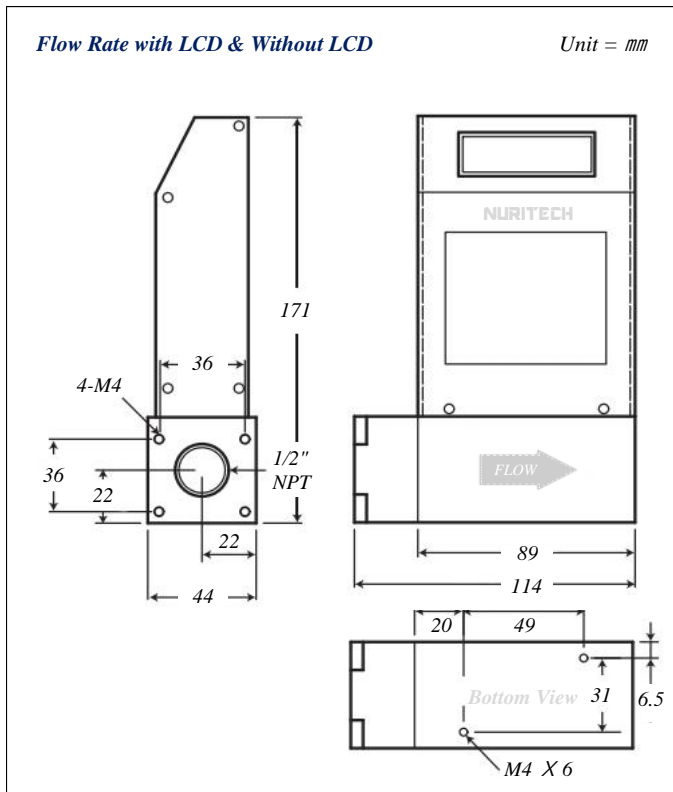


Range	Decimal Point
0 ~ 1.999	D3
2.00 ~ 19.99	D2
20.0 ~ 199.9	D1
200 ~ 1999	None

Flow Rate & Totalizer with LCD



### DIMENSION





### GAS FACTOR TABLE

\* Please contact us the K Factor value of other gases

Actual Gas	Symbol	K Factor Relative to N <sub>2</sub>	Actual Gas	Symbol	K Factor Relative to N <sub>2</sub>	Actual Gas	Symbol	K Factor Relative to N <sub>2</sub>
Acetylene	C <sub>2</sub> H <sub>2</sub>	0.58	Ethanol	C <sub>2</sub> H <sub>6</sub> O	0.39	Methyl Acetylene	C <sub>3</sub> H <sub>4</sub>	0.43
Air	-	1.00	Ethyl Acetylene	C <sub>4</sub> H <sub>6</sub>	0.32	Methyl Bromide	CH <sub>3</sub> Br	0.58
Ammonia	NH <sub>3</sub>	0.74	Ethyl Chloride	C <sub>2</sub> H <sub>5</sub> Cl	0.39	Methyl Chloride	CH <sub>3</sub> Cl	0.63
Argon	Ar	1.42	Ethylene	C <sub>2</sub> H <sub>4</sub>	0.60	Nitric Oxide	NO	1.00
Bromine	Br <sub>2</sub>	0.81	Helium	He	1.43	Nitrogen	N <sub>2</sub>	1.00
Butane	C <sub>4</sub> H <sub>10</sub>	0.26	Hexane	C <sub>6</sub> H <sub>14</sub>	0.18	Nitrogen Dioxide	NO <sub>2</sub>	0.74
1-Butane	C <sub>4</sub> H <sub>8</sub>	0.30	Hydrogen	H <sub>2</sub>	1.01	Nitrous Oxide	N <sub>2</sub> O	0.71
Carbon Dioxide	CO <sub>2</sub>	0.74	Hydrogen Bromide	HBr	1.00	Oxygen	O <sub>2</sub>	0.99
Carbon Monoxide	CO	1.00	Hydrogen Chloride	HCl	1.00	Propane	C <sub>3</sub> H <sub>8</sub>	0.36
Carbonyl Sulfide	COS	0.66	Hydrogen Sulfide	H <sub>2</sub> S	0.80	Propylene	C <sub>3</sub> H <sub>6</sub>	0.41
Chlorine	Cl <sub>2</sub>	0.86	Isobutane	CH(CH <sub>3</sub> ) <sub>3</sub>	0.20	Silane	SiH <sub>4</sub>	0.60
Dimethyl Ether	(CH <sub>3</sub> ) <sub>2</sub> O	0.39	Isobutylene	C <sub>4</sub> H <sub>8</sub>	0.30	Sulfur Dioxide	SO <sub>2</sub>	0.69
Ethane	C <sub>2</sub> H <sub>6</sub>	0.50	Methane	CH <sub>4</sub>	0.72	Sulfur Hexafluoride	SF <sub>6</sub>	0.26

### RELATED PRODUCTS

Model	Display	Input	Output	Power Supply
 <p><b>FCS</b> Flow Indicator</p>	2 Lines Back-Lighted LCD Flow Rate & Totalizer	DC4-20mA	DC4-20mA Pulse RS485	24VDC
 <p><b>FDI</b> Flow Indicator</p>	4-Digit Red LED Flow Rate only	DC4-20mA	DC4-20mA 2-Relay DC1~5V RS485	24VDC AC110/220V

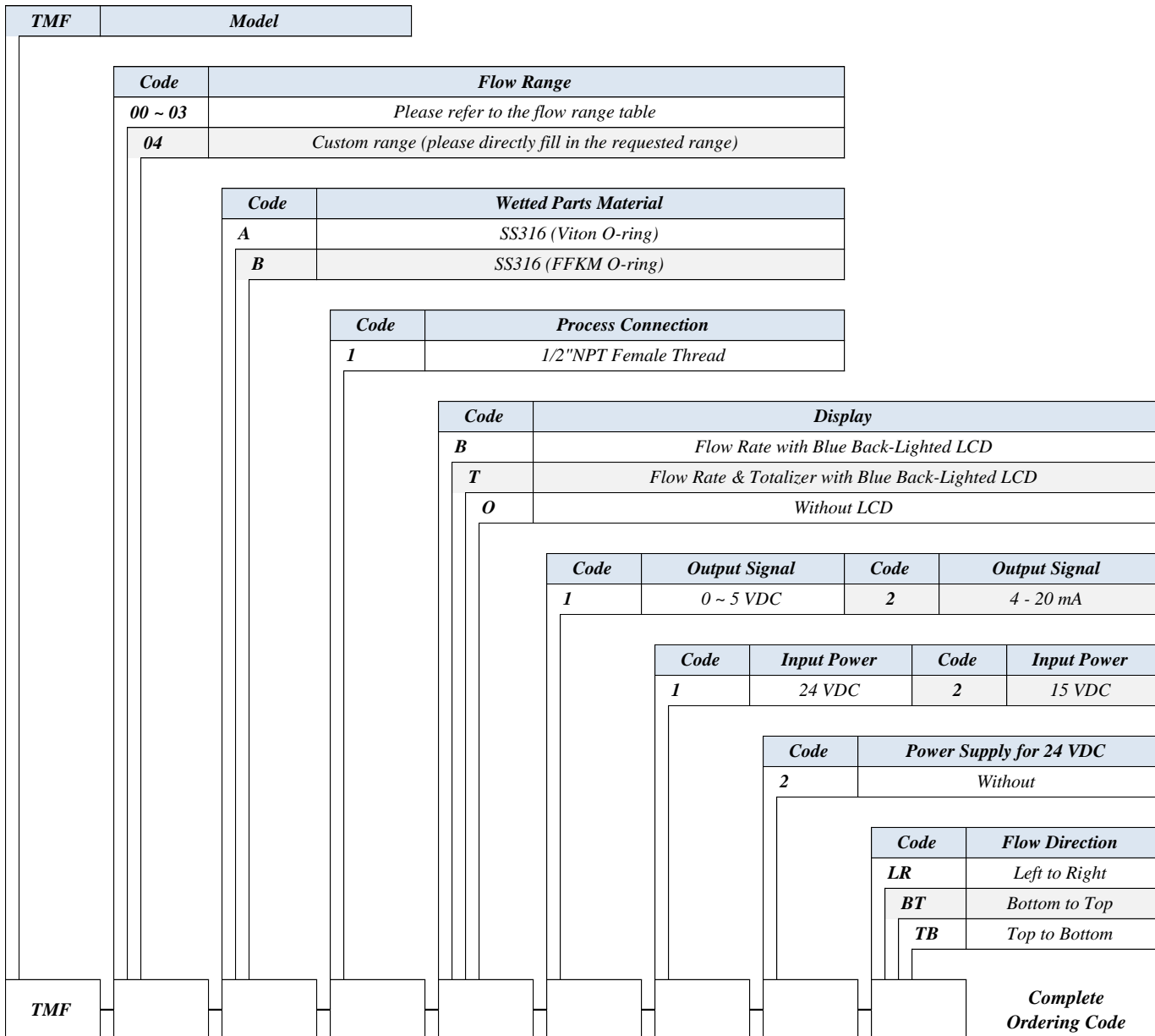
**FLOW RANGE (N<sub>2</sub>)**

\* Flow rates are stated for Nitrogen

\* For other gases use the K factor as a multiplier from gas factor table

Code	Flow Range	Accuracy
00	0 ~ 100 SLM	< 1.0 % F.S.
01	0 ~ 150 SLM	< 1.0 % F.S.
02	0 ~ 200 SLM	< 1.0 % F.S.
03	0 ~ 250 SLM	< 1.5 % F.S.
04	Custom Flow Rate (≤ 250 SLM)	

**ORDERING INFORMATION**



\* Gas Name \_\_\_\_\_ Pressure & Temperature \_\_\_\_\_ Bar.G \_\_\_\_\_ °C (Normal)

FLOW | PRESSURE | TEMPERATURE | AC | DC | BATTERY | OUTPUT | CONTACT | DISPLAY