



FLOW RATE MONITORS

INDICATORS, SWITCHES, TRANSMITTERS AND FOR WATER, OILS, PAINTS, AIR, AND GASES

SERIES MW — Variable Area Flow Rate Indicator

FEATURES:

- ★ Direct Reading Flow Rate Indication
- ★ Optional Switch(es)
- ★ Optional 4-20mA output
- ★ Pressures up to 2000 PSIG (410 Bar)
- ★ Maximum Temperatures to 400°F (315°C)
- ★ Wafer connection mounts easily between ANSI, JIS, or DIN flanges
- ★ Versatile mounts in any orientation
- ★ No Straight Pipe Runs Required
- ★ Easy to read with Dark or Opaque Fluids
- ★ Full Scale Flow Ranges from
 - 15 GPM (50 LPM) to 3000 GPM (11,000 LPM)
 - 100 SCFM to 20,000 SCFM (depending upon pressure)
- ★ Connections Sizes are from 2-inch to 12-inches

GENERAL DESCRIPTION:

Sure Flow Products variable area flow rate indicators are designed for tough industrial applications. This flow indicator is mechanical with a spring-loaded vane and pointer indicator. This allows for mounting in any orientation and is ideal for use with dark or opaque fluids. The body mounts between flanges which reduces weight, size, and cost. Standard with mechanical indication with options of one or two switches, and/or a two wire 4-20mA output signal.



Series MW

Technical Data:

Measuring Accuracy:	±2% of full scale	Transmitter	Linearity	± 1%
Repeatability:	±1% of full scale		Max. Concentricity	± 1.5mm
Flow Measuring Range:	15 GPM (50 LPM) to 3000 GPM (11,000 LPM) 100 SCFM to 20,000 SCFM (depending upon pressure)	Electrical Specification	Operating Voltage	10 VDC
Max. Operating Pressure:	Aluminum or stainless steel: 300, 500, or 2000 PSIG PVC: 100 PSIG	Supply Current	50mA max. 4.20mA	
Max. Operating Temp:	Media: 240°F (110°C) Ambient: 180°F (82°C)	Reverse Polarity Protection	Yes	
Max. Pressure Drop:	Consult Sure Flow Products (avg. 2.8 PSID)	Overvoltage Protection	Up to 30V	
Standard Calibration:	Calibrated for customer supplied fluid viscosity and specific gravity. For air or gas at operating pressure and temperature	Output Signal	4.20mA	
Enclosure:	4 or NEMA type 4X	Load Impedance	$R < (U_{supply} - 3)/0.02$ $R < (U_{supply} - 8)/0.02$	
Alarm Switch Contacts:	SPDT (dry contact): UL/CSA rating at 10 amps and 1/4 hp, 125 or 250 VAC, 1/2 amp, 125 VDOC, 1/4 amp, 250 VDC (3 amps, 125 VAC lamp load)	Resolution of Output Signal	>10 Bit	
		Programmable Output Filter	0.5s (0.5s steps)	
		Temperature Stability	<80ppm	
		Operating Temperature	-40°C +85°C	
		Storage Temperature	-40°C +85°C	

Materials of Construction

WETTED COMPONENTS						
CASING END PORTS TAPERED SHAFT	Aluminum	Brass	Stainless Steel	Carbon Steel	Cast Iron	PVC
SEALS	Buna-N (Std), EPR, Viton®, Perlast					
INTERNAL PARTS	316L Stainless Steel (std)					
OPTIONAL INTERNAL PARTS	Hastelloy C with Teflon Hastelloy C with PVC					
NON-WETTED COMPONENTS						
ENCLOSURE & COVER	Nylon or Aluminum					
SEALS	Buna-N or Viton					
WINDOW	Polycarbonate or Bocosililate (glass)					

Dimensions Series MW

ALL DIMENSIONS IN MM

DN	C	A
50	102	211
65	122	219
80	138	226
100	158	236
125	188	249
150	212	261
200	268	286
250	320	311
300	370	336

ANSI	C	A
2	92	212
2-1/2	105	217
3	127	225
4	157	237
5	186	250
6	216	263
8	270	287
10	324	313
12	381	338

