INTRODUCTION

Flow - Mon USA flow products combine flexibility, reliability, and quality for cost effective sure flow solutions in liquids, air, and gases. These flow instruments are field proven to be dependable, durable, and long lasting, even in the most difficult industrial applications. Flow - Mon USA monitors provides direct reading indication of flow rate with optional electrical switches and transmitter outputs. Available in a variety of metal materials, these monitors are also offered in PVC and Teflon construction for corrosive fluids, or for use in corrosive environments.

FEATURES/BENEFITS

- * ALL METAL CONSTRUCTION/ NO TUBES OF GLASS OR PLASTIC TO BREAK
- * SPRING LOADED MECHANICAL DESIGN/ REQUIRES NO STRAIGHT PIPE RUN, NOT AFFECTED BY ORIENTA-TION
- * LIMITED MOVEMENT ON INTERNAL PARTS/ MINIMAL WEAR AND DOWN TIME
- * MODULAR DESIGN/ REDUCES MAINTENANCE COSTS, DOWN TIME, AND PRODUCTION LOSS
- * DIRECT INDICATION & FIELD ADJUSTABLE SWITCH(ES)
 / MONITORS CRITICAL FLOWS AND PROVIDE ALARM
- * 1% OF RATE REPEATABLE SWITCH SET POINT / ACCURATE & RELIABLE THROUGH ALL OPERATION CYCLES
- * FLOW THROUGH DESIGN/MINIMAL PRESSURE LOSS
- * INDIVIDUALLY CALIBRATED TO CUSTOMER SPECIFICATIONS/ENSURES ACCURACY

APPLICATIONS:

WATER
DEIONIZED WATER
PETROLEUM BASED FLUIDS
SYNTHETIC BASED FLUIDS
COOLANTS
GLYCOLS
PAINTS
SOLVENTS
CORROSIVE FLUIDS
AIR & GASES

Flow - Mon USA monitors operate from two basic variable area spring loaded designs, the piston and vane styles. Both have a unique modular design for easy field installation and service. They do not require any straight pipe runs before or after the monitor thus minimizing the installation footprint. The versatile designs of the piston and vane style monitors allow for the piping orientation to be mounted in any position. Comparable to similar style devices in the industry, Flow - Mon USA monitors "flow through" design offers a low-pressure loss. To ensure accuracy they are individually calibrated in any unit of measure to customer operating specifications.

Piston style monitors operate when flow enters the inlet connection and forces the piston to create a variable orifice when moving across a tapered shaft. This movement drives the indicator shaft and pointer. On a loss of flow, the spring forces the piston back across the tapered shaft reducing the flow orifice created by the shaft and piston. Piston style monitors are used for monitoring maximum full-scale flows from 50 cc/min (.75 GPH) to 1.5 GPM. (See Series Y)

Vane style monitor operates when flow is introduced through the inlet connection making direct contact with the vane that is mechanically linked to the indicator shaft. The fluid forces the vane to move through a contoured opening creating a variable orifice. The greater the flow the larger the orifice becomes for flow to pass. The vane style monitor is also spring loaded and allows the vane to return on decreasing flows. Maximum full-scale flows are available from 1 GPM to1200 GPM. (See Series U, F, and M)

For critical applications that require flow to be monitored, repeatable (1% of rate) field adjustable electrical switches are utilized. These switches are UL, CSA, and CE listed for hazardous and non-hazardous fluids, gases, or environments. For data collecting, trending, and recording applications output transmitters are also offered.

FLOW - MON USA

SURE FLOW PRODUCTS Division





RATE INDICATORS SWITCHES
TRANSMITTERS

WWW.SUREFLOWPRODUCTS.COM

ORDERING INFORMATION

Example Model Code: U1B5A1B2-2A1S500/.9-R1D3

Example: -R20 = switch is factory set at 20 for on or all switches. For multiple set points "R20D50" = each switch is individually factory set. One switch set at 20 increasing, and the other at 50 decreasing flow.

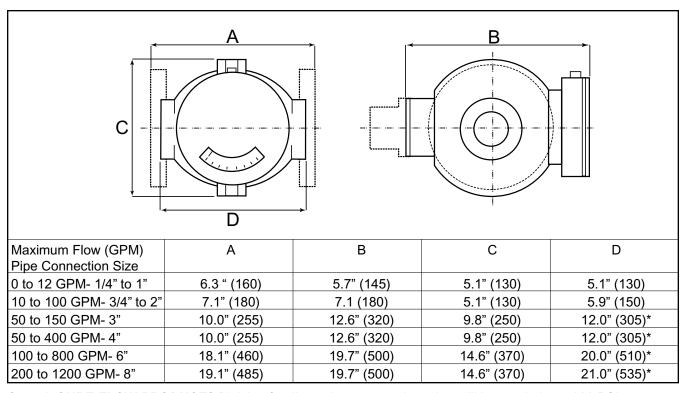
| Example Model Code: U1B5A1B2-2A1S50 | 0/ . 9-R1D3 | |
|--|--|-----------|
| | U1 | |
| | B5 ——— | |
| Y Series | | |
| | A | |
| U Series | | |
| | 1 | |
| | В | |
| F Series | D | |
| | 2-1 | |
| M Series | Δ | |
| 55.1.55 | î | |
| FLUID VISCOSITY & SPECIFIC GRAVITY- FOR LIQUIDS All monitors are individually calibrated to maintain specified accuracy. To spe specific gravity of fluids use the following symbols "S" for SSU followed by operating viscosity, / specific gravity (example: -S500 Gravity of .9) "C" for Centipose followed by operating viscosity, / specific gravity (example: Specific Gravity of .9) "K" for Centistokes followed by operating viscosity, / specific gravity (example Specific Gravity of .9) PRESSURE, TEMPERATURE & SPECIFIC GRAVITY- FOR AIR & GASES All monitors are individually calibrated to maintain specified accuracy. To spetemperature and specific gravity use the following symbols: "P" for PSI ("B" for Bar) followed by the system pressure, use "F" for temperature degrees Celsius), and "/" for specific gravity. Example: P100F70/1.0 = 100 PSI, 70 degrees F and specific gravity of 1.0) | /.9 = 500 SSU and Specific -C50/.9 = 50 Centipose and :-K5/.9 = 5 Centistokes and ecify operating pressure, | -\$500/.9 |
| FACTORY PRE SET SWITCH POINTS All switches are field adjustable. The switch point is the desired flow rate in the monitor is ordered with. Example: if ordered in GPM the switch setting(s) are order: specify the desired switch setting(s) and indicate for each switch the desired flow rate, or symbol "r" for increasing flow followed by the desired flow rate, or symbol "r" for increasing flow followed by the desired flow rate, or symbol "r" for increasing flow followed by the desired flow rate, or symbol "r" for increasing flow followed by the desired flow rate, or symbol "r" for increasing flow followed by the desired flow rate, or symbol "r" for increasing flow followed by the desired flow rate, or symbol "r" for increasing flow flowed by the desired flow rate flowers. | e factory set in GPM. To esired set point. Use symbol | |

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| 3 WIRE SPDT 2 2 2 3 WIRE SPDT (gold contacts) 3 3 3 4 WIRE SPDT 4 4 4 6 WIRE DPDT 5 5 5 HAZARDOUS LOCATION SWITCHES (select the applicable switch followed by the quantity- up to 2) FLAMEPROOF 6 6 6 6 3 WIRE SPDT 7 7 7 7 6 WIRE DPDT 8 8 8 ENCLOSURE / SERVICE RATINGS OIL & DUST TIGHT A A A WEATHER TIGHT B B B CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION 1 1 1 HORIZONTAL MOUNT = RIGHT TO LEFT FLOW 2 2 2 VERTICAL MOUNT = FLOW UP 3 3 | | | 1 | | 1 | | 1 | |
| 3 WIRE SPDT (gold contacts) 4 WIRE SPDT 6 WIRE DPDT 6 WIRE DPDT 5 5 5 6 HAZARDOUS LOCATION SWITCHES (select the applicable switch followed by the quantity- up to 2) FLAMEPROOF 6 6 6 3 WIRE SPDT 7 7 7 6 WIRE DPDT 8 8 8 8 ENCLOSURE / SERVICE RATINGS OIL & DUST TIGHT A A A A WEATHER TIGHT B B B CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION HORIZONTAL MOUNT = LEFT TO RIGHT FLOW 1 1 1 HORIZONTAL MOUNT = RIGHT TO LEFT FLOW VERTICAL MOUNT = FLOW UP | | | | | | | | |
| 4 WIRE SPDT 4 4 4 6 WIRE DPDT 5 5 5 HAZARDOUS LOCATION SWITCHES (select the applicable switch followed by the quantity- up to 2) FLAMEPROOF 6 6 6 3 WIRE SPDT 7 7 7 6 WIRE DPDT 8 8 8 ENCLOSURE / SERVICE RATINGS OIL & DUST TIGHT A A A WEATHER TIGHT B B B CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION 1 1 1 HORIZONTAL MOUNT = LEFT TO RIGHT FLOW 1 1 1 HORIZONTAL MOUNT = RIGHT TO LEFT FLOW 2 2 2 VERTICAL MOUNT = FLOW UP 3 3 3 | | | 2 | | | | 2 | |
| 6 WIRE DPDT 5 5 5 HAZARDOUS LOCATION SWITCHES (select the applicable switch followed by the quantity- up to 2) FLAMEPROOF 6 6 6 3 WIRE SPDT 7 7 7 6 WIRE DPDT 8 8 8 ENCLOSURE / SERVICE RATINGS OIL & DUST TIGHT A A A A WEATHER TIGHT B B B B CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION HORIZONTAL MOUNT = LEFT TO RIGHT FLOW HORIZONTAL MOUNT = RIGHT TO LEFT FLOW VERTICAL MOUNT = FLOW UP 3 3 3 | | | 3 | | 3 | | 3 | |
| HAZARDOUS LOCATION SWITCHES (select the applicable switch followed by the quantity- up to 2) FLAMEPROOF 6 6 6 3 WIRE SPDT 7 7 7 6 WIRE DPDT 8 8 8 ENCLOSURE / SERVICE RATINGS OIL & DUST TIGHT A A A WEATHER TIGHT B B B CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION T 1 1 1 HORIZONTAL MOUNT = LEFT TO RIGHT FLOW 1 1 1 1 1 HORIZONTAL MOUNT = RIGHT TO LEFT FLOW 2 2 2 2 2 VERTICAL MOUNT = FLOW UP 3 3 3 3 | | | 4 | | 4 | | 4 | |
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| 6 WIRE DPDT | FLAMEPROOF | | 6 | | 6 | | 6 | |
| ENCLOSURE / SERVICE RATINGS OIL & DUST TIGHT A A A WEATHER TIGHT B B B CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION T 1 1 1 HORIZONTAL MOUNT = LEFT TO RIGHT FLOW 1 1 1 1 1 HORIZONTAL MOUNT = RIGHT TO LEFT FLOW 2 2 2 2 VERTICAL MOUNT = FLOW UP 3 3 3 | 3 WIRE SPDT | | 7 | | 7 | | 7 | |
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| CORROSION RESISTANT C C C MOUNTING ORIENTATION / FLOW DIRECTION 0 1 2 | WEATHER TIGHT | | | | | | | |
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Flow - Mon USA offers a wide range of additional options such as; electrical pin connectors, stainless steel instrument identification tags, glass windows, etc. For a complete list of options please contact SURE FLOW PRODUCTS Division.

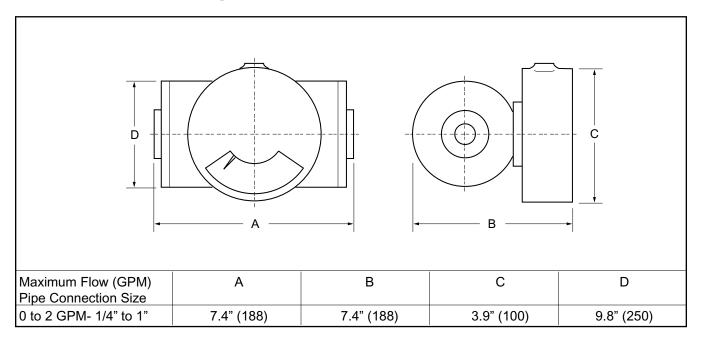
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DIMENSIONS: Vano Style



Consult SURE FLOW PRODUCTS Division for dimensions on monitors that will be used above 300 PSI

DIMENSIONS- Piston Style



Note: Conduit connections are 1/2" NPT

Consult SURE FLOW PRODUCTS Division for dimensions on monitors that will be used above 300 PSI

SPECIFICATIONS

| SERIES | Y1 | Y2 | Y 3 | U1 | U2 | U3 | F1 | F2 | F3 | M1 | M2 | M3 |
|--|-------------------------------|-------------------------------|--|--|--|----------------------------|---|-------------------------------------|----------------------------|---|--|-------------------------------|
| PRESSURE | 300 PSI 21 BAR | 2000PSI 138 BAR | 100 PSI 7 BAR | 300 PSI 21 BAR | 2000 PSI 138 BAR | 100 PSI 7 BAR | 300 PSI 21 BAR | 2000 PSI 138 BAR | 100 PSI 7 BAR | 300 PSI 21 BAR | 2000 PSI 138 BAR | 100 PSI 7 BAR |
| CONNECTION SIZE | 1/4" to 1" | 1/4" to 1" | 1/4" to 1" | 1/4" to 1" | 1/4" to 1" | 1/4" to 1" | 3/4" to 2" | 3/4" to 2" | 3/4" to 2" | 3" to 8" | 3" to 8" | 3" to 8" |
| CONNECTION TYPE | A.N.S.I. | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | NPT A.N.S.I. FLANGED | A.N.S.I. or DIN FLANGED | A.N.S.I. or DIN FLANGED | A.N.S.I. or DIN FLANGED |
| MAXIMUM FLOWS | 50 CC/M to 1.5 GPM | 50 CC/M to 1.5 GPM | 50 CC/M to 1.5 GPM | 1 GPM to 12 GPM | 1 GPM to 12 GPM | 1 GPM to 12 GPM | 10 GPM to 100 GPM | 10 GPM to 100 GPM | 100 GPM | 250 GPM 4"= 50 to 400 GPM 6"= 100 to 800 GPM | 400 GPM 6"= 100 to 800 GPM 8"= 200 to | 800 GPM 8" = 200 to |
| TEMPERATURE (STANDARD) | 200 F 95 C | 200 F 95 C | 100 F 40 C | 200 F 95 C | 200 F 95 C | 100 F 40 C | 200 F 95 C | 200 F 95 C | 100 F 40 C | 200 F 95 C | 200 F 95 C | 100 F 40 C |
| TEMPERATURE (OPTIONAL) | 400 F 205 C | 400 F 205 C | | 400 F 205 C | 400 F 205 C | | 400 F 205 C | 400 F 205 C | | 400 F 205 C | 400 F 205 C | |
| PRESSURE DROP | < 4 PSID | < 4 PSID | < 4 PSID | <2 PSID | < 2 PSID | < 2 PSID | < 2 PSID | < 2 PSID | < 2 PSID | < 2 PSID | < 2 PSID | < 2 PSID |
| ACCURACY | 5% F.S. | 5% F.S. | 5% F.S. | 5% F.S. | 5% F.S. | 5% F.S. | 2% F.S. | 2% F.S. | 2% F.S. | 2% F.S. | 2% F.S. | 2% F.S. |
| REPEATABILITY | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% of RATE | 1% ACTUAL | 1% ACTUAL |
| NET WEIGHTS (APPROXIMATE) ALUMINUM BRONZE 316 L STAINLESS CAST IRON NICKEL PLATED CI CARBON STEEL PVC & TEFLON | 11 LBS. 20 LBS. 22 LBS. | 11 LBS. 20 LBS. 22 LBS. | 11 LBS. 20 LBS. 22 LBS. 22 LBS. 9 LBS. | 2.5 LBS. 5 LBS. 5 LBS. 5 LBS. 5 LBS. 5 LBS. | 2.5 LBS. 5 LBS. 5 LBS. 5 LBS. 5 LBS. 5 LBS. | 2.5 LBS. | 7 LBS. 15.5 LBS. 15.5 LBS. 15.5 LBS. 15.5 LBS. 15.5 LBS. | 15.5 LBS. 15.5 LBS. 15.5 LBS. | | 44 to 150 120 to 450 155 to 540 100 to 360 100 to 360 | 120 to 450 155 to 540 100 to 360 100 to 360 | 38 LBS. |

*NOTES:

Maximum flows are shown in GPM. For other units of measure including air & gas scales and ranges- consult SURE FLOW PRODUCTS Division of Flow - Mon USA.

Maximum flows of 50 cc/m to 200 cc/m require a minimum viscosity of 20 Centistokes.

Other connections available: BSP, S.A.E., and DIN Flanges.

ELECTRICAL SWITCH SPECIFICATIONS

| Switch Description | Ratings | Listings |
|-------------------------------|--|--------------------------------------|
| General Purpose Switches | | |
| 3 Wire S.P.D.T. | 15 amp-125, 250 or 480 VAC, 0.5 amp- 125 VDC, 0.25 amp- 250 VDC | UL, CSA, CE |
| 3 Wire S.P.D.T (Gold contacts | 1 amp- 125 VDC | UL, CSA, CE |
| 4 Wire S.P.D.T. | 10 amp- 125 or 250 VAC, 0.3 amp- 125 VDC, 0.15 amp- 250 VDC | UL, CSA, CE |
| 6 Wire D.T.D.T. | 10 amp- 125 or 250 VAC, 0.3 amp- 125 VDC, 0.15 amp- 250 VDC | UL, CSA, CE |
| Hazardous Location Switches | | |
| 3 Wire S.P.D.T. Flameproof | 5 amp- 250 VAC | BASEEFA No.: Ex831468 Eex.dellC.T6 |
| 3 Wire S.P.D.T. | 15 amp- 480 VAC (resistive) | BASEEFA No.: Ex77185/B Ex.sed.llc.T6 |

Notes: Switch point repeatability 1% of rate. Dead band for general purpose switches < 5% of full scale flow. For dead band on hazardous location switches please consult *SURE FLOW PRODUCTS*, division of Flow - Mon USA.

TRANSMITTER SPECIFICATIONS- Please consult SURE FLOW PRODUCTS, division of Flow - Mon USA.

APPLICATION SPECIFICATION ASSISTANCE FAX FORM

For quick application assistance please fill in or place an X for the required information indicated below. Please copy and fax the copied form to 248-926-9753. For immediate assistance please contact us at 248-960-3685. We thank you for your interest and appreciate the opportunity to quote.

| Company: | Contact Name: |
|---|-----------------------------------|
| elephone No: | _ Fax No: |
| -Mail Address (optional): | |
| REQUIRED SPECIFICATIONS | |
| luid is: Operating Viscosity: | : Specific Gravity: |
| Sas is: Specific Gravity: _ | |
| RESSURE | |
| faximum: Operating: | Minimum: PSI Bar Other: |
| EMPERATURE | |
| Max. Temperature: Operating Temperature: | Min Temperature: F C |
| LOW RATE | |
| fax. Flow Rate: Min. Flow Rate: | |
| INIT OF MEASURE | |
| SPM | |
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| ody Material Special Request: | |
| WITCHES | |
| ndication Only Indication w/Switch | Indications w/Transmitter output |
| • | · |
| General Purpose Switch- 3 Wire S.P. D. T 3 | Wire S.P.D.T w/Gold Contacts |
| 4 Wire S.P.D.T 6 | Wire D.P.D.T |
| lumber of switches required per flow monitor: | |
| | |
| lazardous Location Switch: Flameproof 3 | Wire S.P. D.T. Hazardous Location |
| | |
| RANSMITTER OUTPUT: 4-20Ma Othe | er |
| NCLOSURE | |
| oil & Dust Tight Water Tight | t Corrosion Resistant Other: |
| IOUNTING ORIENTATION / FLOW DIRECTION | |
| | cal Mount Flow Down ———— |
| lorizontal Mount Flow to Right Horizontal Mount Flow to Right | ontal Mount Flow to Left |
| PECIAL REQUESTS: (Fill in any) | |
| | |
| Quantity: | |

FLOW - MON USA

W. H. Cooke & Co., Inc. Supplier of industrial controls, heaters, and sensors since 1963

sales@whcooke.com

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