



PADDLE WHEEL FLOW RATE INDICATOR & TOTALIZER

FOR LIGHT VISCOSITY FLUIDS SUCH AS WATER, DEIONIZED WATER, AND CHEMICALS

SERIES SP/R and SP/T

FEATURES:

- ★ Cost Effective
- ★ Low Pressure Drop
- ★ Standard with Battery Powered Digital Display
- ★ Display Rotates for vertical or horizontal mounting
- ★ 5 to 7 year Battery Life
- ★ Operates in any flow direction
- ★ Easy to remove sensor for cleaning
- ★ Available in 2 Styles Saddle mount or Inline
- ★ Connection Sizes from 1/2 inch up to 8 inches
- ★ Connection Types: NPT, Flanged, Union, and Plain Ended
- ★ Full Scale Flow Ranges from: 15 to 3200 GPM
- ★ Optional Pulse Output
- ★ Simple and User Friendly



GENERAL DESCRIPTION:

This microprocessor based flow meter utilizes an 8 digit liquid crystal display (LCD). Isolated monitoring locations are also viable as power is supplied by a five to seven year long-life battery.

The paddle wheel, spinning at a rate linearly proportional to the velocity of the flow, activates a switch once per revolution. The time it takes the paddle to rotate, divided into the diameter of the pipe, results in the flow rate. Flow rate variations from turbulence are minimized by a microprocessor averaging process. The user can choose to display the flow rate, the accumulated flow or alternate between the rate and totalized flow. To retain the totalizer value, the reset button can be deactivated

Technical Data

| | |
|-------------------------|---------------------|
| Ambient Operating Temp. | 0° - 150°F |
| Max. Percent Solids | 1% of fluid volume |
| Range | 1.4 to 18 feet/sec. |
| Linearity | ±2% of full scale |
| Repeatability | ±1% of full scale |
| Max. Press./Temp. | 200 psi |
| Battery Life | 5 to 7 years |

Materials of Construction

| | |
|-----------------------------|--------------------------|
| Paddle Wheel & Wetted Parts | PVC Plastic |
| Paddle Pin | Stainless Steel |
| O-Ring | Buna-N |
| Optional O-Ring | Viton (other on request) |
| Display Housing | ABS |
| Faceplate | Polycarbonate |

MODEL SELECTION:

Example: **SP/T-55GPM-1.00 PE-PVC-2-P**

SERIES:

- SP/R** = Flow Rate Indication
- SP/T** = Flow Rate Indicator w/Total
- SP/X** = Pulse Output, No Display

FLOW RANGE- PIPE SIZE (inches):

| GPM Flow Range Min. - Max. | Pipe Size | Available Styles | |
|-------------------------------|--------------|------------------|--------|
| | | Pipe | Saddle |
| 0.6 to 15GPM | .500 | P | |
| 2.0 to 30GPM | .750 | P | |
| 5.0 to 55GPM | 1.00 | P | |
| 10 to 125GPM | 1.50 | P & | S |
| 15 to 200GPM | 2.00 | P & | S |
| 40 to 450GPM | 3.00 | P & | S |
| 70 to 800GPM | 4.00 | P & | S |
| 120 to 1800GPM | 6.00 | | S |
| 250 to 3200GPM | 8.00 | | S |

Note: For other units of measure consult SFP

CONNECTION TYPES:

- PE** = Plain Ended
- U** = Union
- N** = NPT
- F** = Flanged (ANSI)
- S** = Saddle Mount (includes adaptor)

MATERIAL:

PVC = PVC

SEALS:

- 1** = Viton
- 2** = Buna N (standard)

Note: Others available consult SFP

OPTIONAL OUTPUT:

P = Pulse

Note: Others available consult SFP