



PADDLE WHEEL FLOW RATE INDICATOR & TOTALIZER

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

SERIES SP/T and SP/X

FEATURES:

- ★ Cost Effective Paddle Wheel Flow Meter
- ★ Low Pressure Drop
- ★ No Power Required
- ★ Battery Powered with 5 to 7 year operating duration
- ★ Rotates for vertical or horizontal mounting
- ★ Continuous Display of Flow Rate, Resettable Total and Non Resettable Total or; Remote Display or; Pulse Output Only (no display).
- ★ Operates in any flow direction
- ★ Easy to remove sensor for cleaning
- ★ Available in 2 Styles Saddle mount or Inline
- ★ Connection Sizes form 1/2 inch up to 8 inches
- ★ Connection Type: 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 paddle wheel meter is available with continuous digital display of flow rate, resettable 8 digit total flow and a non resettable grand total. The display can also be remotely mounted. For areas that do not require a display; this paddle wheel flow meter is offered with a pulse output only that can be tied into a PLC or other remote receivers. The LCD display is battery powered and provides long service up to 5 to 7 years. Unlike most paddle wheel meters this meter can handle some dirt or debris, and quite easy to clean.

Applications include: Lake or River Water, Potable Water, De-Ionized Water, Cooling Water, Sea Water, Coolants, Detergents; Corrosive Fluids, and other light viscosity fluids.

Customers include: Industries with cooling water towers; process lines; chemical additives and mixing; plating companies for spent fluids, cleaning - wash systems, irrigation, sprinkle systems, fish hatcheries and many others.

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/T = Flow Rate Indicator w/Total

SP/X = Pulse Output, No Display

FLOW RANGE - PIPE SIZE (inches):

GPM Flow Range		Pipe Size	Available Styles	
Min.	Max.		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 SEP

OPTIONAL OUTPUT:

P = Pulse

Note: Others available consult SFP