PADDLE WHEEL FLOW METER
LED RATE AND TOTAL
WITH OPTIONAL TRANSMITTERS, COMMUNICATION, ALARM OUTPUTS

FOR LIGHT VISCOSITY FLUIDS SUCH AS WATER, DEIONIZED WATER, PLATING SOLUTIONS, CHEMICALS, COOLANTS

SERIES PW-TK, PW-TI

FEATURES:

- ★ **Low Cost- Cost Effective**
- ★ **High Accuracy:** 1% of Full Scale
- ★ **Selectable Units of Measure:** GPM. LPM, CMH, PPH Etc.
- ★ **Corrosion Resistant Material Options:** PVC, Polypropylene (PP), 316 Stainless Steel (SS)
- ★ **Enclosure:** Nema 4X. IP 65
- ★ **Bright Flow Rate and Total Display:** LED
- ★ **Variety of Outputs:** 4/20mA, 0 to 5 VDC, Pulse. RS485 or MODBUS
- ★ **Optional Alarm/Contact:** Adjustable 1 Amp Relay
- ★ **Variety of Connections:** Union, NPT, Flanged
- ★ **Easy to Install:** Mounts in Any Orientation
- ★ **Pre-Programmed:** Simple, User Friendly
- ★ **Connection Sizes:** From 1/2 to 4 inches
- ★ **Flow Ranges:** From 1 GPM (3.5 LPM) to 1100 GPM (4350 LPM)
- ★ **Two Styles:** Inline and Insertion
- ★ **Very Low Pressure Drop:** < less than 1 PSID

GENERAL DESCRIPTION:

This microprocessor based, durable but compact Paddle Wheel Flow meter provide bright (LED) display of Rate and/ or Total flow with high accuracy of 1% full scale at low cost. Available with output signals of 4-20mA, 0 to 5 Volts, and pulse outputs for data acquisition of flow, recording flow , usage/comsumption of flow when connected to a remote receiver or PLC. This meter is also available with a programmable/ field adjustable 1 amp relay that can be used to alarm on loss of flow or too much flow is critical. It is commonly used to: protect pumps, cooling circuits, furnaces, and applications that were flow is critical in a process. Saving expensive equipment, down time, and loss of production. The right choice at a low cost.
Applications include and are not limited to: Process Water, Cooling Water, Deionized Water, Lake and River Water, Sea Water, Spent Water, Potable Water, Coolants, Chemicals, and Light Viscosity Fluids.
Uses: Processing, Cooling Towers, Furnaces, Seal Pumps, Fish Hatcheries, Power Plants, Water Cooled Electrical Circuits, Plating, Irrigation, Sprinkler Systems, Industrial Washers/Systems, and Air Dryers, Conveyors, Chemical Mixing/Batching, and many more.

TECHNICAL DATA

Temperature Range	PVC= 0 to 150F(66C), PP = 0 to 176F(80C), 316 SS = 0 to (120C)
Max. Electrical Ambient Temp.	176F (80C)
Maximum Pressure	150PSI (10.3 Bar)
Accuracy	1% Full Scale
Repeatability	0.5% of Rate
Turn Down	> 10:1
Required Power	10 to 30 VDC (12-24 VDC for Pulse/No display)
Viscosity Range	0.5 to 20 Centistokes
MATERIALS OF CONSTRUCTION	
Body	PVC, Polypropylene, 316 Stainless
Paddle	Tefzel
Shaft	Zirconium Ceramic
Seals	EPDM or Viton
Approvals	CE, RoHS, CSA

MODEL SELECTION:

Example: PW-TK S-355GPM-2.0F-PVC-1

SERIES:

PW-TK (inline version)
PW-TI (insertion version)

Display (rate and total) /Outputs

D = Display Only
S = Display with 1 Amp Relay (Alarm Switch)
A = Display with 4-20mA and Pulse Output
V = Display with 0 to 5 Volt and Pulse Output
RS = Display with RS485 or MODBUS (Selectable)
P = No Display/Pulse Output

Note: All meters with outputs will be provided with a 3m lead wires.

FLOW RANGE - PIPE SIZE

Min.	-	Max.		Size
1.0	to	**32 GPM**	-	**.500**
1.5	to	**45 GPM**	-	**.750**
2.5	to	**80 GPM**	-	**1.00**
6.5	to	**225 GPM**	-	**1.50**
10.5	to	**355 GPM**	-	**2.00**
16.0	to	**257 GPM**	-	**2.50**
24.0	to	**735 GPM**	-	**3.00**
33.0	to	**1149 GPM**	-	**4.00**

CONNECTION TYPES:

US = Union Socket
UN = Union NPT
F = ANSI Flanged
F(DIN) = DIN Flanged
S = Saddle Mount (Insertion Version Only)

BODY MATERIALS:

PVC = PVC
PP = Polypropylene
SS = 316 Stainless Steel

SEAL MATERIALS:

1 = Viton
3 = EPDM

Note: Others available upon request.

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