

TKW SERIES PLASTIC FLOW METER

Industry's Toughest Plastic Paddle Wheel Flow Meter

The **truflo®** Paddlewheel Flow Meter provides High Accuracy at Low Cost and is ideal for plastic piping. The **truflo®** consist of a Rugged True Union Industrial Design that is Suitable for Corrosive Applications with Virtually **NO pressure drop**

**No Programming
Plug & Play Design**

Nema 4X
Enclosure

Indication LED
(Flashes when
Liquid Flowing)

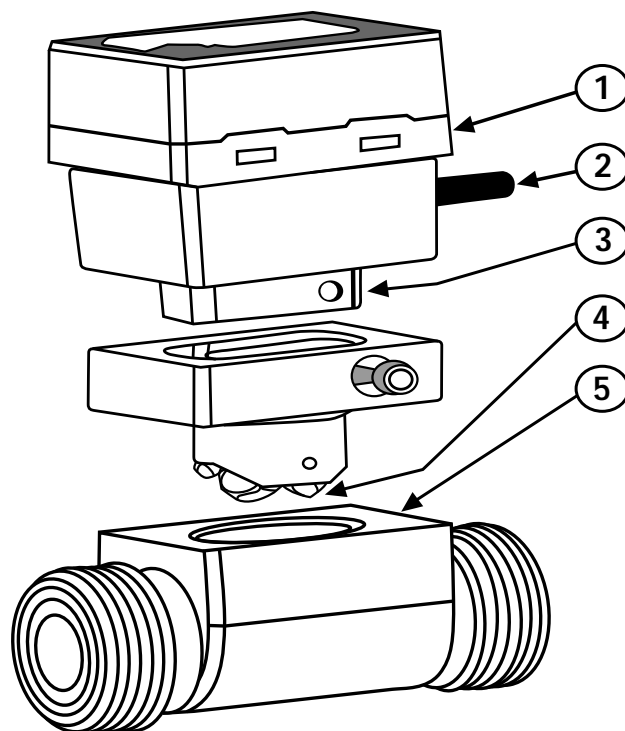


Features

- High Accuracy
Less than $\pm 1.0\%$ of Full Scale
- NPN Pulse+ 4-20mA Output
- Corrosion Resistant Materials
PVC/PP/316SS
- Low Cost Visual Indication
- Easy Installation-No Mounting Kits
- Compact Design
- Horizontal or Vertical Installation
- Size Range $\frac{1}{2}$ " - 4"
- Low Pressure Drop
- NEMA 4X Enclosure
- Suitable for Corrosive Environments
- True- Union Design $\frac{1}{2}$ " - 2"
(Flanged 3" - 4")

Parts TKW Series

- ① Flow Controller
- ② Lead Wire
- ③ Hall Sensor
- ④ Paddle Wheel
- ⑤ Body (PVC, PP, 316 SST)



Product Selection

EXAMPLE :

TKW — 25 — A — PVC
(1) (2) (3) (4)

SERIES

TKM = Paddle Wheel Flow Meter with Transmitter
-4 -20mA + (Flow Rate Pulse)

PIPE SIZE

15 = (1/2") / 20 = (3/4")
25 = (1") / 40 = (1 1/2")
50 = (2") / 80 = (3") 100 = (4")

BODY MATERIAL

PV = PVC
PP = Polypropylene
ST = 316 SST

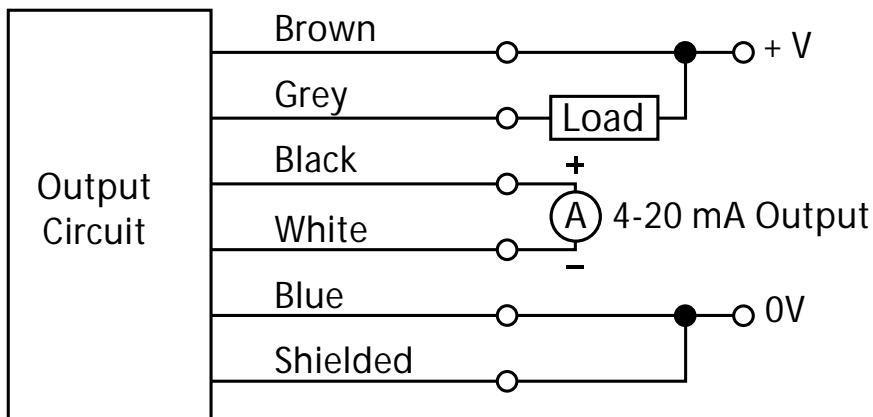
CONNECTION METHOD

STD = Wire Lead (3m) - Other Lengths
Available Connector

General Data

SPECIFICATION	DESCRIPTION
Fluid	Water or Chemicals Liquid - Viscosity Range: .5-20 centistokes
Accuracy	> ± 1.0% of F.S. @ 20°C (68°F) - Repeatability ± .5% of Full Scale
Max Flow Velocity	10 m/s max - (32.8 ft/s max)
Min Flow	0.3 m/s min. - (.98 ft/s min)
Operating press	150 psi
Turndown	33:1
Response time	Real Time
Material of Construction	Paddle: Tefzel Body: PVC/PP/316 Shaft: Zirconium Ceramic Seals: EPDM/FPM
Operating Temperature	PP < 80°C (176°F) 316 SST < 120°C (148°F)
Electronics	+ 50°C (122°F)
Protection Class	IP66 NEMA 4X
Approval	CE Rohs
Current Draw	60mA Max
Operating Voltage	10-30VDC

Wiring Diagram



Brown	12~24VDC	Black	+ 4~20mA Output
Blue	0V	White	- 4~20mA Output
Grey	NPN Paddle Pulse output	Shielded	

DC Power Only

Application Note

Load resistance:

Current output (4 - 20mA) : 120Ω max.

Voltage output (0 - 5V) : 10KΩ min.

Range of transmitter TKW Series

TKW Series	DN15 ½"	DN20 ¾"	DN25 1"	DN40 1 ½"	DN50 2"
Range (LPM)	0~30LPM 0-8GPM	0~60LPM 0-16GPM	0~90LPM 0-24GPM	0~200LPM 0-53GPM	0~330LPM 0-87GPM
Example	<p>Range of transmitter : 4.0 ~ 20.0 mA</p> <p>4mA = 0 20mA = High Flow Valve</p> <p> 4mA = 0GPM</p> <p>TKW 1 20mA = 24GPM</p>				

Typical application

