

- Up to 24" Pipe Size
- Zirconium Ceramic Rotor | Bearings
- Accuracy $\pm 0.5\%$ of Full Scale
- Retrofits Into Signet® Type Fittings



SERIES : TIW



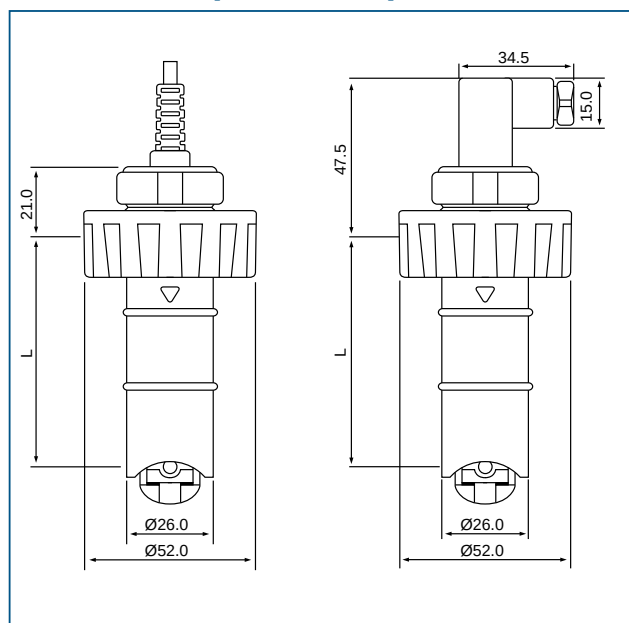
Features

- Lifetime Warranty on Paddle Wheel Assembly Large
- Flying Lead | Hirschmann DIN Connection
- High Accuracy | ± 0.5 of Full Scale
- Pipe Size $\frac{1}{2}$ - 24"
- Flow Velocity Range | 0.33 to 33 ft/s
- NEMA 4X | IP65 Protection
- Flow Units | LPM | GPM | M3 | Ton
- Completely Corrosion Resistant
- PVC | PP | PVDF Body
- Zirconium Ceramic Rotor | Tefzel® Paddle
- Retrofits into Signet® Type Fittings
- Frequency Pulse Output

Applications

- Chemical Processes
- Water Usage
- Filter| Strainer Change-Out
- Scrubber | Gas Stacks
- Sodium Hypochlorite

Dimension (unit : mm)

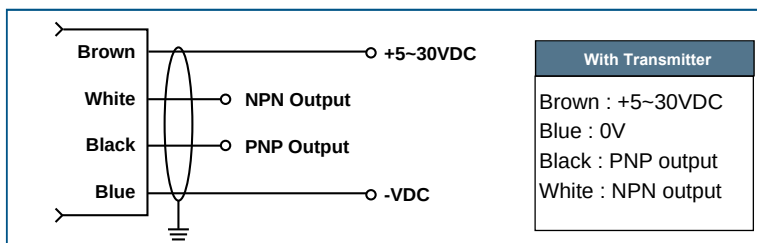


The TIW digital flow meters are easy to install with exceptional long life performance. Truflo TIW Series Paddle Wheel Flow Sensors are highly repeatable, rugged sensors that offer exceptional value with little or no maintenance. The TIW Series has a process-ready open collector signal with a wide dynamic flow range of 0.1 to 10 m/s (0.3 to 33 ft/s). The sensor measures liquid flow rates in full pipes and can be used in low pressure systems.

The Truflo TIW Series sensors are offered in a variety of materials for a wide range of pipe sizes and insertion configurations. The many material choices including PVC, PP and PVDF make the model highly versatile and chemically compatible to many liquid process solutions.

Sensors can be installed in $\frac{1}{2}$ - 24" pipes using Truflo's comprehensive line of custom fittings. These custom fittings, which include tees, saddles and weldolets, seat the sensor to the proper insertion depth into the process flow.

Wiring Diagram



Specifications

General		
Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s
Pipe Size Range	½ to 24"	DN15 to DN600
Linearity	±0.5% of F.S @ 25 °C (77 °F)	
Repeatability	±0.5% of F.S @ 25 °C (77 °F)	

Wetted Materials		
Sensor Body	PVC PP PVDF	
O-rings	FKM (std) EPDM	
Rotor Pin Bushings	Zirconium Ceramic	
Rotor	ETFE TEFZEL®	

Electrical		
Frequency	49 Hz per m/s nominal	15 Hz per ft/s nominal
Supply Voltage	5 to 24 VDC ±10%, regulated	
Supply Current	<1.5 mA @ 3.3 to 6 VDC	<20 mA @ 6 to 24 VDC

Max. Temperature/Pressure Rating - Standard and Integral Sensor		
PVC	180 psi @ 68 °F	12.5 bar @ 20 °C
	25 psi @ 140°F	1.7 bar @ 60 °C
PP	180 psi @ 68 °F	12.5 bar @ 20 °C
	25 psi @ 180 °F	1.7 bar @ 85 °C
PVDF	200 psi @ 68 °F	14 bar @ 20 °C
	25 psi @ 240 °F	1.7 bar @ 60 °C

Operating Temperature		
PVC	32 °F to 140 °F	0 °C to 60 °C
PP	0 °F to 195 °F	-20 °C to 90 °C
PVDF	-40 °F to 250°F	-40 °C to 120 °C

Standards and Approvals		
CE FCC		
RoHS Compliant		

See Temperature and Pressure Graphs for more information

Temperature | Pressure Graphs

Note: The pressure/temperature graphs are specifically for the Truflo Flow sensors. During system design the specifications of all components must be considered.

Ordering Notes: Most common part number combinations shown. For all other combinations contact factory.

MODEL SELECTION

TIW - [PF] - [S]

Material of Inserting Tube	Wire Connection	Length of Tube	Seals
P - PVC PP - PP PF - PVDF	DIN Connection (STD) Suffix 'F' for Lead Wire 3m	S - 1"- 4" Pipe L - 6"- 24" Pipe	FKM (Std) Suffix 'E' For EPDM

