TIM SERIES Paddle Wheel Flow Meter





- Patent Pending Redesigned Paddle
- Lifetime Warranty
- ☐ Industry's Highest Accuracy: ±0.5%



ETFE Tefzel® Paddle

- Patent Pending ShearPro® Contoured Paddle
- □ Reduced Turbulence = Reduced Wear = Longer Life
- Outstanding Flex Fatigue & Creep Resistance
- Surpassed Only by Teflon® in Chemical Resistance
- Excellent Mechanical & Impact Properties
- Superior Wear Resistance vs PVDF

The TIM Digital Flow Meters are easy to install with exceptional guaranteed long-life performance.

The TIM Series Paddle Wheel Flow Meters are highly repeatable, exceptionally accurate, extremely rugged, offer outstanding value and require absolutely no maintenance.

TIM Series has a process-ready output signal with a wide dynamic flow range of 0.3 to 33 ft/s | 0.1 to 10 m/s.

TIM Series sensors are offered in various materials and are available to measure ½ - 24" pipe sizes.

The many material choices, including PVC, PP and PVDF make this model highly adaptable and chemically resistant to many corrosive liquid process applications.

The TIM Flow Meters can be installed using Truflo's® extensive line of ANSI and DIN fittings. Truflo® offers SDR Pipe Saddles from DN15 - DN600 in GFPP material.

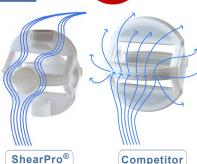
New ShearPro® Design





- Superhydrophobic Design
- Contoured Flow Profile
- Reduced Friction
- Reduced Turbulence
- 78% Less Drag than Flat Paddle Design*





Zirconium Ceramic Rotor | Bushings

- Industry's Highest Impact and **Chemical Resistant Properties**
- Up to 15x the Wear Resistance vs. Regular Ceramic
- Nano-Polished Mirror Finished vs. **Regular Ceramic - Less Friction**
- ☐ Integral Rotor Bushings Reduce Wear & Fatigue Stress

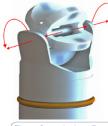
Shielded Rotor Design

Eliminates Finger Spread

- No Lost Paddles
- Increased Temp. Rating
- Protects Rotor Pin
- Reduced Turbulence



360°ShieldedARotor



Competitor

Finger Spread = Lost Rotor

Features

- LED Dual Display
- Cable Grip Wire Connector Combo
- □ Industry's Highest Accuracy: ±0.5% F.S
- □ Frequency Pulse Output | Rate + Total | RS-485 **
- Password Secured
- Retrofits into Signet® Type Fittings
- Double O-Ring Seal









TIM SERIES Paddle Wheel Flow Meter





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 Pigmented PVDF Natural	
O-Rings	FKM EPDM* FFKM*	
Rotor Pin Bushings	Zirconium Ceramic ZrO ₂	
Paddle Rotor	ETFE Tefzel®	

Optional*

Electrical

Frequency	49 Hz per m/s nominal	15 Hz per ft/s nominal
Supply Voltage	10-30 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 | Non-Shock

PVC	180 psi @ 68°F	12.5 bar @ 20°C
	40 psi @ 140°F	2.7 bar @ 60°C
PP	180 psi @ 68°F	12.5 bar @ 20°C
	40 psi @ 190°F	2.7 bar @ 88°C
PVDF	200 psi @ 68°F	14 bar @ 20°C
	40 psi @ 240°F	2.7 bar @ 115°C

Operating Temperature

PVC	32°F to 140°F	0°C to 60°C
PP	-4°F to 190°F	-20°C to 88°C
PVDF	-40°F to 240°F	-40°C to 115°C

Standards and Approvals

CE | FCC

RoHS Compliant

See Temperature and Pressure Graphs for more information

Temperature | Pressure Graphs | Non-Shock

Note: The Pressure/Temperature graphs are specifically for the Truflo® Flow Sensors. during system design the specifications of all components must be considered.

Model Selection

