#### TKB SERIES

### **Paddle Wheel Flow Meter**



- No Programming | Quick Installation
- Lifetime Warranty
- Industry's Highest Accuracy: ±0.5%



# ETFE Tefzel®Paddle

- Chemically Inert to Virtually All Chemicals
- Superior Anti-Stick and Low Frictional Properties
- Excellent Mechanical Properties
- Exceptional Impact Strength
- Superior Chemical and Wear Resistance vs PVDF

The TKB Series Digital Flow Meters are easy to install with exceptional guaranteed long-life performance. TKB Series Paddle Wheel Flow Sensors are highly repeatable, extremely rugged sensors that offer outstanding value and require no scheduled maintenance.

The TKB 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. The sensor measures liquid flow rates in full pipes.

The Truflo® TKB Series sensors are offered in various materials and are available from ½ - 4" 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 TKB Series flow meter bodies are true-union designed up to 4" just as any true-union ball valve is designed. All models come completely pre-programmed with a bright LCD Display that rotates 360°.

The Truflo® TKB Series also comes equipped with a lifetime warranty on the paddle wheel assembly.

## New ShearPro® Design

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





ShearPro®

Competitor 'A'

\*Ref: NASA "Shape Effects on Drag" \*\*

#### **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

# Through-Pin Design

■ Eliminates Finger Spread

ShearPro®

Competitor 'A'

- No Lost Paddles
- Increased Temp. Rating
- □ 360° Housing | Protects Paddle from Particulate, Reducing Wear



# Features

- Battery Operated
- Display Rotates 360°
- Bright LCD Digital Display
- Low Pressure Drop
- □ NEMA 4X | IP 66 Protection
- Password Protected Security
- ☐ True Union Design ½ 4"









## **TKB 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 4"	DN15 to DN100
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 (Dark)   PP (Pigmented)   PVDF (Natural)	
O-Rings	FKM   EPDM*   FFKM*	
Rotor Pin   Bushings	Zirconium Ceramic   ZrO <sub>2</sub>	
Paddle   Rotor	ETFE Tefzel <sup>®</sup>	

Optional\*

#### Electrical

Battery 3 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**

CF LFCC	
OL   1 OC	
DallC Camaniford	
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**

**TKB -** PF - 25



