TK3M SERIES Paddle Wheel Flow Meter





- No Programming
- **□** Lifetime Warranty
- ☐ Industry's Highest Accuracy: ±0.5%



Re-Designed Tefzel® Rotor

- □ 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

Product Description

The TK3M Series Digital Flow Meters are easy to install with exceptional guaranteed long-life performance. TK3M Series Paddle Wheel Flow Sensors are highly repeatable, extremely rugged sensors that offer outstanding value and require no scheduled maintenance.

The TK3M 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® TK3M Series sensors are available from ¼ - 4" pipe sizes. All models come completely pre-programmed with a bright LED Display that rotates 360°.

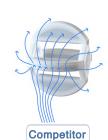
The Truflo® TK3M Series also comes equipped with a lifetime warranty on the paddle wheel assembly.

New ShearPro® Design



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





*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

Shielded Rotor Design

- **□** Eliminates Finger Spread
- No Lost Paddles
- Increased Temp. Rating
- □ 360° Housing | Protects Rotor





Features

- Display Rotates 360°
- Bright LED Display | Visible in the Dark
- No Programming
- No Pressure Drop
- □ NEMA 4X | IP66 Protection
- Password Protected Security





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Specifications

General

Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s
Pipe Size Range	½ to 4"	DN08 to DN10€
Linearity	±0.5% of F.S @ 25°C 77°F	
Repeatability	±0.5% of F.S @ 25°C 77°F	

Wetted Materials

Sensor Body	316 SS	
O-Rings	FKM (std) EPDM FFKM	
Rotor Pin Bushings	Zirconium Ceramic ZrO ₂	
Paddle 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

Operating Temperature

316 SS	-40°F to 212°F	-40°C to 100°C

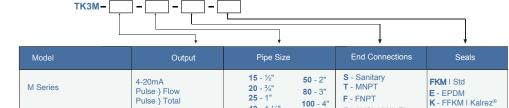
E - EPDM

K - FFKM I Kalrez®

Output and Approvals

TK3M Series I 4-20mA + Flow Pulse Output + Totalizer Flow Pulse Output **RoHS Compliant**

Model Selection



40 - 1 ½"

80 - 3"

100 - 4"

F - FNPT

F - ANSI 150lb Flange

* Optional

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