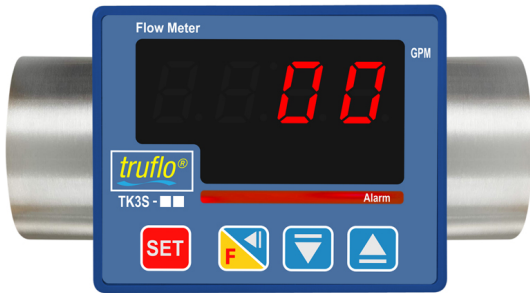


TK3S SERIES

Paddle Wheel Flow Meter



- ❑ No Programming Required
- ❑ Lifetime Warranty
- ❑ Industry's Highest Accuracy: $\pm 0.5\%$



Re-Designed Tefzel® Rotor

- ❑ Patent Pending ShearPro® Contoured Paddle
- ❑ Reduced Turbulence = Reduced Wear = Longer Life
- ❑ Higher Accuracy $\pm 0.5\%$
- ❑ Surpassed only by Teflon® in Chemical Resistance
- ❑ Excellent Mechanical & Impact Properties
- ❑ Superior Wear Resistance vs PVDF

Product Description

The TK3S Series Digital Flow Meters are easy to install with exceptional guaranteed long-life performance. TK3 Series Paddle Wheel Flow Sensors are highly repeatable, extremely rugged sensors that offer outstanding value and require no scheduled maintenance.

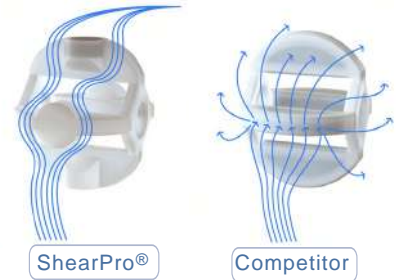
The TK3S Series has a process-ready output signal with a wide dynamic flow range of 0.3 to 33 ft/s | 0.1 to 10 m/s. The sensor measures liquid flow rates in full pipes.

The Truflo® TK3S Series sensors are available from 1/4 - 4" pipe sizes. All models come completely pre-programmed with a bright LED Display that rotates 360°.

The Truflo® TK3S 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" **

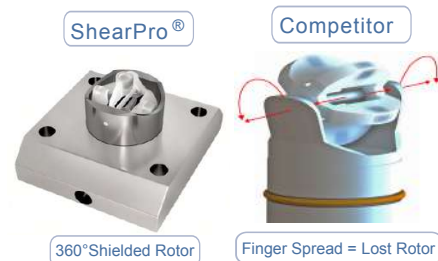
Zirconium Ceramic Rotor | Bushings

- ❑ 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 from Particulate, Reducing Wear



Features

- ❑ Display Rotates 360°
- ❑ Bright LED Display | Visible in the Dark
- ❑ No Programming Required
- ❑ Low Pressure Drop
- ❑ NEMA 4X | IP 66 Protection
- ❑ Password Protected Security

316 SS



**<https://www.grc.nasa.gov/www/k-12/airplane/shaped.html>

TK3S SERIES

Paddle Wheel Flow Meter



Specifications

General

Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s
Pipe Size Range	¼" to 6"	DN08 to DN150
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

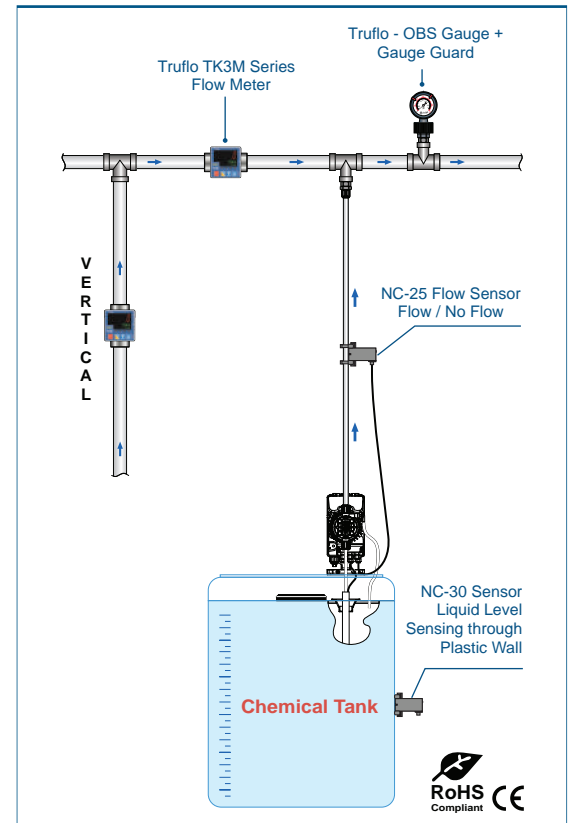
Operating Temperature

316 SS	-40°F to 212°F	-40°C to 100°C
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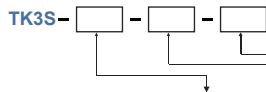
Standards and Approvals

CE FCC
RoHS Compliant

5 d d ' j W h c b ' 9 l U a d ' Y



Model Selection



Model	Pipe Size	End Connections
S - Pulse Output + 1A Relay	15 - ½"	S - Sanitary T - NPT F - ANSI 150lb Flange
	20 - ¾"	
	25 - 1"	
	40 - 1 ½"	