Truflo® — TKB Series In-Line Paddle Wheel Flow Meter Sensor







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Battery Powered | Flow | Total









Industry's Longest Lasting Paddle Wheel Flow Meter

Truflo[®] — TKB Series

In-Line Paddle Wheel Flow Meter Sensor



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





- Battery Powered
- Revolutionary ShearPro® Paddle Wheel Design
- Low Pressure Drop
- NEMA 4X | IP 66 Protection
- Password Protected Security
- ✓ True Union Design ½ 2"
- ✓ Flange Connection 3" 4"

Engineered for accuracy, ruggedness, longevity, and battery powered convenience

The Truflo® TKB Series digital in-line flow meter sensors are easy to install with exceptional guaranteed long-life performance. They 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.

TKB Series flow meters are offered in a variety of materials and are available from ½" - 4" pipe sizes. The many material choices, including PVC, PP, PVDF and 316 SS make this model highly adaptable and chemically resistant to many corrosive liquid process applications.

The TKB Series flow meter bodies (PVC, PP, PVDF) are true-union designed up to 2" just as any true-union ball valve is designed. 3" - 4" versions are flanged. They 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.



Truflo® — TKB Series

In-Line Paddle Wheel Flow Meter Sensor



New ShearPro® Design

- Contoured Flow Profile
- **⊘** Reduced Turbulence = Increased Longevity
- 78% Less Drag than Old Flat Paddle Design[‡]

[‡]Ref: NASA "Shape Effects on Drag"



Tefzel® Paddle Wheel

Superior Chemical And Wear Resistance vs PVDF

Zirconium Ceramic Rotor | Bushings

- Up to 15x the Wear Resistance vs. Regular Ceramic
- Integral Rotor Bushings Reduce Wear and Fatigue Stress

ShearPro® Through-Pin Design

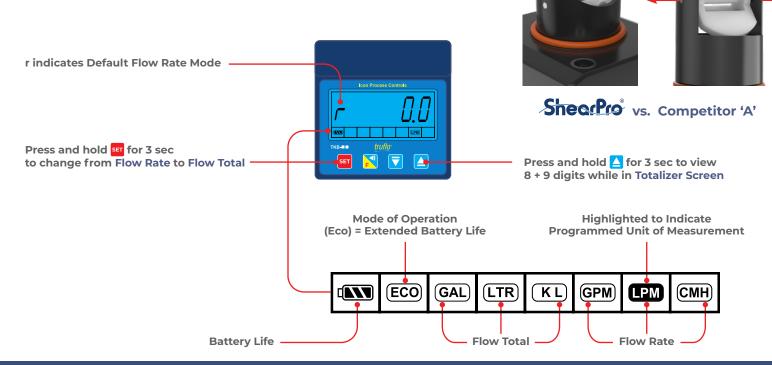
- Eliminates Finger Spread
- No Lost Paddles
- Increased Temp. Rating
- **⊘** 360° Housing Protects Rotor

TK3B

Finger Spread = LOST

Unprotected Rotor

Displaying Flow Rate | Flow Totalizer



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Specifications

General					
Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s			
Pipe Size Range	1/4" to 4"	DN08 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) 316SS				
O-Rings	FKM EPDM* FFKM*				
Rotor Pin Bushings	Zirconium Ceramic ZrO ₂				
Paddle Rotor	ETFE Tefzel®				
Electrical					
Operating Voltage Battery	3.0 VDC				
Battery	Lithium Battery (CR2477T)				
Life of Battery	> 1 Year Normal, > 2 Years Eco Mode				
Max. Temperature/Pressure R	ating - Standard and Integral Sensor Non	-Shock			
PVC	180 psi @ 68°F 40 psi @ 140°F	12.5 bar @ 20°C 2.7 bar @ 60°C			
PP	180 psi @ 68°F 40 psi @ 190°F	12.5 bar @ 20°C 2.7 bar @ 88°C			
PVDF	200 psi @ 68°F 40 psi @ 240°F	14 bar @ 20°C 2.7 bar @ 115°C			
316 SS	Consult Factory				
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			
316 SS	-40°F to 300°F	-40°C to 149°C			
Standards and Approvals					
CE FCC RoHS Compliant	CE FCC RoHS Compliant				

See Temperature and Pressure Graphs for more information

*Optional

K-Factors for TK Series

Size	LPM	GPM		
1/4"	547	2079		
3/8"	300	1140		
1/2"	127.6	484.9		
3/4"	81.8	310.8		
1"	55.1	209.4		
1½"	18.8	71.4		
2"	10.2	38.8		
3"	4.7	18		
4"	2.1	8		
▲ K-Factor is Pre-Programmed				

Min/Max Flow Rates

Pipe Siz	e (O.D.)	LPM GPM 0.3m/s min.	LPM GPM 10m/s max.	
DN08	(1/4")	0.04 0.16	12 3	∢ SS Only
DN10	(3/8")	1.0 3.8	50 13	∢ SS Only
DN15	(1/2")	3.5 1.0	120 32	
DN20	(3/4")	5.0 1.5	170 45	
DN25	(1")	9.0 2.5	300 79	
DN40	(1½")	25.0 6.5	850 225	
DN50	(2")	40.0 10.5	1350 357	
DN65	(2½")	60.0 16.0	1850 357	
DN80	(3")	90.0 24.0	2800 739	
DN100	(4")	125.0 33.0	4350 1149	

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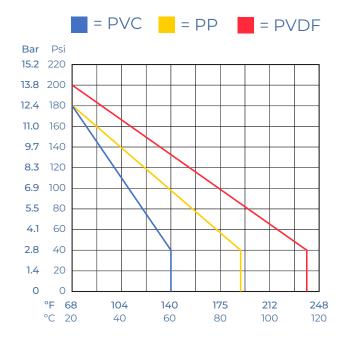




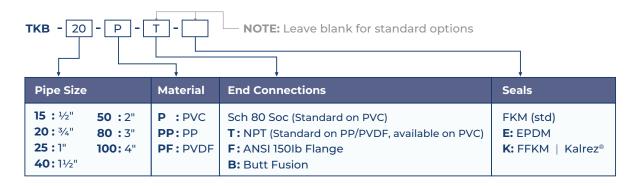
Temperature | **Pressure Graphs** | **Non-Shock**

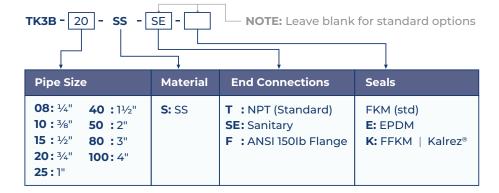
Note: The Pressure/Temperature graphs are specifically for the Truflo® Flow Meter Sensors.

During system design the specifications of all components must be considered.



Model Selection







by



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