

- Flow Rate & Totalizer
- 2 Levels of Password Security
- Non-Resettable Totalizer Version
- 0.5% Accuracy of Full Scale
- Display Rotates 360 Degrees

PVC

PP

PVDF

**SERIES : TKB**  
**CONNECTION : SOC / NPT / Flanged / Butt**  
**DIN SEALS : FPM / EPDM / FFKM**

**LIFETIME WARRANTY**  
 On Paddle Assembly



Zirconium Ceramic Rotor Pin & Bearings



Display Rotates 360°



Removable Cover

LPM / GPM / KL

Waterproof Battery Holder Standard "C" Type Battery

Screen Backlight

Battery Life Indication

Removable Cover (No Tools Required)

### FEATURES

- Industry's Highest Accuracy /  $\pm 0.50\%$  of Full Scale
- Unit of Flow Measurement is Selectable LPM / GPM / KL
- Corrosion Resistant / PVC / PP/ PVDF\*
- Low Cost Visual Indication
- Easy Installation / No Mounting Kits
- Expanded Flow Range - 0.3m/s - 10m/s / 0.98 ft/s - 32.8 ft/s
- Display Flashes when Battery is Low
- 2 -Year Battery Life\*\*
- Large LCD Digital Display
- Horizontal / Vertical Installation
- Size Range 1/2 - 4"
- Low Pressure Drop
- NEMA 4X Enclosure
- Suitable for Corrosive Environments
- Password Protected Security
- True-Union Design 1/2 - 2" / Flanged 3" - 4"

\* Note : CPVC Union Ends Available

### SPECIFICATIONS

<b>Fluid</b>	Water or Liquid Chemicals / Viscosity Range: 0.5-20 centistokes
<b>Accuracy</b>	> $\pm 0.50\%$ of F.S. @ 20°C (68°F) / Repeatability $\pm 0.5\%$ of F.S.
<b>Max Flow Velocity</b>	10 m/s max / 32.8 ft/s max
<b>Min Flow</b>	0.3 m/s min / 0.98 ft/s min
<b>Operating Pressure</b>	150 psi (Non-Shock)
<b>Turndown</b>	33:1
<b>Response time</b>	Real Time
<b>Material of Construction</b>	<b>Paddle :</b> Tefzel® <b>Body :</b> PVC / PP / PVDF <b>Shaft :</b> Zirconium Ceramic <b>Seals :</b> FPM (Std) / EPDM / FFKM
<b>Operating Temperature</b>	PVC < 60°C (140°F) / PP < 80°C (176°F) / PVDF < 110°C (230°F)
<b>Electronics</b>	+ 50°C / 122°F
<b>Protection Class</b>	IP66 / NEMA 4X
<b>Approval</b>	CE / Rohs
<b>Current Draw</b>	10mA Max
<b>Battery</b>	3V DC

\*\* Econo Mode

\* Consult Factory for Details

## K-Factors for TK Series Plastic Flow Meters

Size	LPM	GPM
½"	124	471
¾"	72	274
1"	54	171
1 ½"	19	72
2"	10.3	39
3"	4.7	18
4"	2.1	8

## Standard Pipe Size

## Flow Rate Min/Max

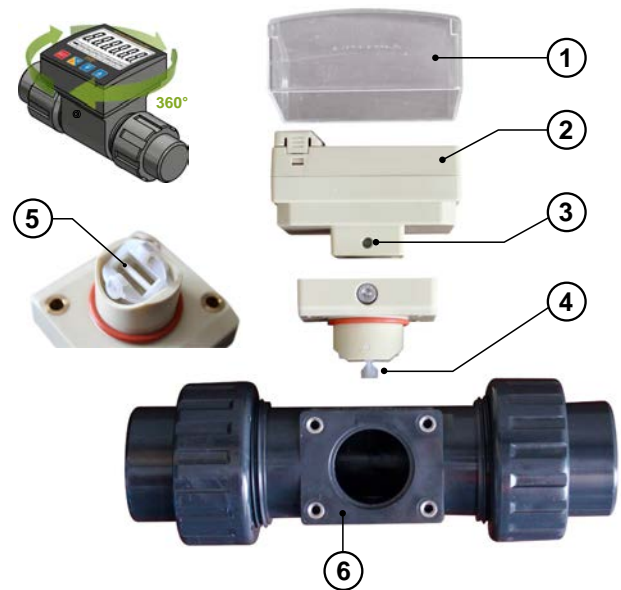
Pipe Size (O.D.)	ANSI (ID) (Inches)		DIN (ID) (mm)	Flow Rate LPM / USGPM	
	Sch (40)	Sch (80)		0.3m/s min.	10m/s max.
DN15 (½")	0.62	0.55	Ø20	3.5 / 1.0	120 / 32
DN20 (¾")	0.82	0.74	Ø25	5.0 / 1.5	170 / 45
DN25 (1")	1.00	0.96	Ø32	9.0 / 2.5	300 / 79
DN40 (1 ½")	1.40	1.50	Ø50	25.0 / 6.5	850 / 225
DN50 (2")	2.00	1.90	Ø63	40.0 / 10.5	1350 / 357
DN 65 (2 ½")	2.50	2.30	Ø75	60.0 / 16	1850 / 357
DN80 (3")	3.10	2.90	Ø78	90.0 / 24	2800 / 739
DN100 (4")	4.00	3.80	Ø96.50	125.0 / 33	4350 / 1149

## Pressure vs. Temperature (psi / Water / Non-Shock)

NOMINAL SIZE		PVC				PP				PVDF				
		30° F 70° F	71° F 105° F	106° F 120° F	121° F 140° F	- 5° F 85° F	86° F 120° F	121° F 140° F	141° F 175° F	- 5° F 70° F	71° F 105° F	106° F 140° F	141° F 175° F	176° F 210° F
INCHES	mm													
½ - 2	15-50	150	120	100	30	150	110	90	55	150	125	100	85	55
2 - ½	65	150	120	100	NA	150	95	70	40	150	125	100	85	55
3	80	150	120	100	NA	150	95	70	40	150	125	100	85	60
4	100	150	120	100	NA	150	95	70	40	150	125	100	85	60

## PARTS TKB SERIES

1. Polycarbonate Cover
2. Flow Controller
3. Hall Sensor
4. Redesigned Paddle Wheel
5. Zirconium Ceramic Shaft + Bearings
6. Body / PVC / PP / PVDF \*



## PRODUCT SELECTION

## EXAMPLE

TKB ----- 25 ----- PF ----- F ----- T  
 (1) (2) (3) (4) (5)

## 1. SERIES

TKB = Battery Operated Paddle Wheel  
 Flow Meter - Rate + Flow Totalizer

## 2. PIPE SIZE

15 / (½") / 20 / (¾")  
 25 / (1") / 40 / (1 ½")  
 50 / (2") / 80 / (3") / 100 / (4")

## 3. BODY MATERIAL\*

P = PVC  
 PP = Polypropylene  
 PF = PVDF

## 4. SEALS\*

E = EPDM (Optional)  
 F = FFKM (Optional) \* FPM is Standard

## 5. END CONNECTIONS

S - Sch 80 Soc  
 T - NPT  
 B - SDR11 Butt  
 D - DIN  
 F - ANSI Flange

\* CPVC Union Ends Available

## TYPICAL APPLICATION

