

TKB SERIES Battery Operated Paddle Wheel Flow Meter

Industry's Most Accurate



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



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



On Paddle Assembly



Zirconium Ceramic Rotor Pin & Bearings



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

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

** Econo Mode

* Consult Factory for Details

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K-Factors

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

Standard Pipe Size

Pipe Size O.D.	ANSI ID Inches		DIN D mm	Flow Rate LPM USGPM	
	Sch 40	Sch 80		0.3m/s min.	10m/s max.
DN15 (1/2")	0.62	0.55	Ø20	3.5 / 1.0	120 / 32
DN20 (3/4")	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 1/2")	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 1/2")	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

Flow Rate Min/Max

Pressure vs. Temperature | psi | Water | Non-Shock

NOMINAL SIZE		PVC				PP				PVDF				
INCHES	mm	30° F	71° F	106° F	121° F	- 5° F	86° F	121° F	141° F	- 5° F	71° F	106° F	141° F	176° F
		70° F	105° F	120° F	140° F	85° F	120° F	140° F	175° F	70° F	105° F	140° F	175° F	210° F
1/2 - 2	15-50	150	120	100	30	150	110	90	55	150	125	100	85	55
2 - 1/2	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

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 / (1/2") / 20 / (3/4")
 25 / (1") / 40 / (1 1/2")
 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

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

