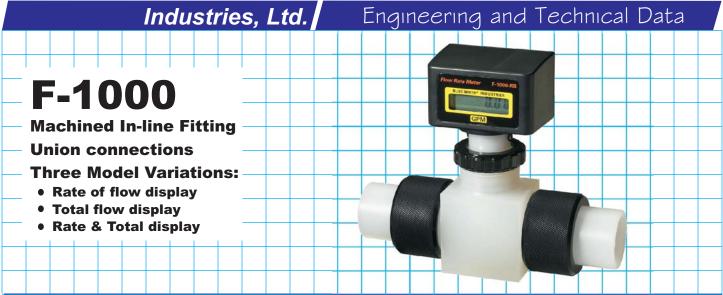
# <u>Blue-White</u>

# **DigiFlo Digital Paddlewheel Meters**



### **Features:**

- High accuracy digital paddlewheel technology.
- 3/8" through 2" and 16mm through 63mm pipe sizes.
- Flow rate from 1 to 1000 LPM ( .4 to 300 GPM).
- Adapter connection options: socket weld/glue, socket fusion, butt fusion, or female BSPT.
- Adapter material options: PVC-U, PP or PVDF.

- Easy to read 6 digit LCD display, up to 4 decimal places.
- Tamper proof factory programming.
- Battery operated (2 AAA batteries included).

Power requirement: ......2 AAA batteries (included)

Maximum pressure drop: .....8 PSI (0.5 bar) (varies per model)

- Very low pressure drop.
- Total reset function can be disabled.

Enclosure: .....NEMA 4X (IP56)

Approximate shipping wt: ...5 lb. (2.3 kg)

Sensor, paddlewheel, axle: ...PVDF

Enclosure: .....ABS

FLOW =

INPU1

Acceptabl

# Specifications:

Max. working pressure: ........300 PSI (20 bar) @ 70° F (21°C) Max. fluid temperature: .......200°F (93°C) @ 0 PSI (PP, PVDF adapters)

Max. ambient temperature: ..14° to 110° F/ -10° to 43° C Full scale accuracy: .....+/- 2%

# **Materials of Construction:**

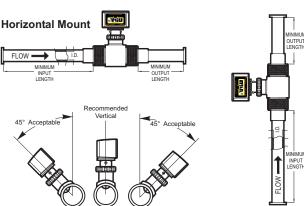
Pipe fitting body.....Optional: Polypropylene or PVDF Adapter Connections: ......Optional: Polypropylene, PVDF, PVC-U Unions: .....Anodized Aluminum

# **Installation Requirements:**

#### **Minimum Straight Pipe Length Requirements**

The meter's accuracy is affected by disturbances such as pumps, elbows, tees, valves, etc., in the flow stream. Install the meter in a straight run of pipe as far as possible from any disturbances. The distance required for accuracy will depend on the type of disturbance.

Type Of Disturbance	Minimum Inlet Pipe Length	Minimum Outlet Pipe Length		
Flange	10 X Pipe I.D.	5 X Pipe I.D.		
Reducer	15 X Pipe I.D.	5 X Pipe I.D. 5 X Pipe I.D.		
90° Elbow	20 X Pipe I.D.			
Two Elbows -1 Direction	25 X Pipe I.D.	5 X Pipe I.D.		
Two Elbows -2 Directions	40 X Pipe I.D.	5 X Pipe I.D.		
Pump Or Gate Valves	50 X Pipe I.D.	5 X Pipe I.D.		



Angle Mount on Horizontal Pipe

**Vertical Mount** 

#### Mounting location

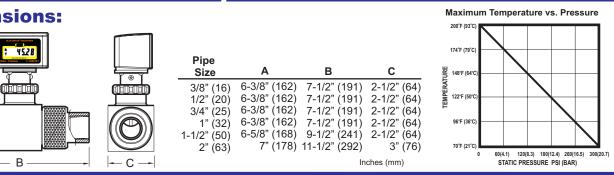
- The meter is designed to withstand outdoor conditions. A cool, dry location, where the unit can be easily serviced is recommended.
- The meter can be mounted on horizontal or vertical runs of pipe. Mounting at the vertical (twelve o'clock) position on horizontal pipe is recommended. Mounting anywhere around the diameter of vertical pipe is acceptable, however, the pipe must be completely full of water at all times. Back pressure is essential on downward flows. See the minimum straight length of pipe requirement chart above.
- The meter can accurately measure flow from either direction.

# <u>Blue-White</u> Industries, Ltd.

# **DigiFlo Digital Paddlewheel Meters**

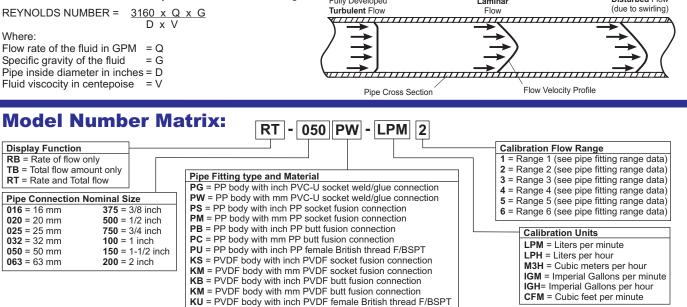


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# Flow Stream Requirements:

Measuring accuracy requires a fully developed turbulent flow profile. Pulsating, swirling and other disruptions in the flow stream will effect accuracy. Flow conditions with a Reynolds Number greater than 4000 will result in a fully developed turbulent flow. A Reynolds Number less than 2000 is laminar flow and may result in inaccurate readings. Disturbed Flow Fully Developed Laminar



# Pipe Size, Flow Range and Display Model Options:

Polypropylene Models with Polypropylene BSPT Threads

**Polypropylene Models with PVC MM Socket Connections** 

Display in Imperial Gallons per Minute					Display in Liters per Minute.				
DN	IGM	RATE ONLY	TOTAL ONLY	RATE & TOTAL	DN	LPM	RATE ONLY	TOTAL ONLY	RATE & TOTAL
F/BSPT	Range	Model Number	Model Number	Model Number	mm	Range	Model Number	Model Number	Model Number
3/8"	.8 to 8	RB-375PU-GPM1	TB-375PU-GPM1	RT-375PU-GPM1	16	3 to 30	RB-375PW-LPM1	TB-375PW-LPM1	RT-375PW-LPM1
3/8"	.4 to 4	RB-375PU-GPM2	TB-375PU-GPM2	RT-375PU-GPM2	16	1 to 10	RB-375PW-LPM2	TB-375PW-LPM2	RT-375PW-LPM2
1/2"	2 to 20	RB-500PU-GPM1	TB-500PU-GPM1	RT-500PU-GPM1	20	7 to 70	RB-500PW-LPM1	TB-500PW-LPM1	RT-500PW-LPM1
1/2"	.5 to 5	RB-500PU-GPM2	TB-500PU-GPM2	RT-500PU-GPM2	20	2 to 20	RB-500PW-LPM2	TB-500PW-LPM2	RT-500PW-LPM2
3/4"	4 to 40	RB-750PU-GPM1	TB-750PU-GPM1	RT-750PU-GPM1	25	15 to 150	RB-750PW-LPM1	TB-750PW-LPM1	RT-750PW-LPM1
3/4"	.8 to 8	RB-750PU-GPM2	TB-750PU-GPM2	RT-750PU-GPM2	25	3 to 30	RB-750PW-LPM2	TB-750PW-LPM2	RT-750PW-LPM2
1"	6 to 60	RB-100PU-GPM1	TB-100PU-GPM1	RT-100PU-GPM1	32	25 to 250	RB-100PW-LPM1	TB-100PW-LPM1	RT-100PW-LPM1
1"	2 to 20	RB-100PU-GPM2	TB-100PU-GPM2	RT-100PU-GPM2	32	7 to 70	RB-100PW-LPM2	TB-100PW-LPM2	RT-100PW-LPM2
1-1/2"	15 to 150	RB-150PU-GPM1	TB-150PU-GPM1	RT-150PU-GPM1	50	60 to 600	RB-150PW-LPM1	TB-150PW-LPM1	RT-150PW-LPM1
1-1/2"	10 to 100	RB-150PU-GPM2	TB-150PU-GPM2	RT-150PU-GPM2	50	25 to 250	RB-150PW-LPM2	TB-150PW-LPM2	RT-150PW-LPM2
1-1/2"	6 to 60	RB-150PU-GPM3	TB-150PU-GPM3	RT-150PU-GPM3	50	40 to 400	RB-150PW-LPM3	TB-150PW-LPM3	RT-150PW-LPM3
1-1/2"	2 to 20	RB-150PU-GPM4	TB-150PU-GPM4	RT-150PU-GPM4	50	25 to 250	RB-150PW-LPM4	TB-150PW-LPM4	RT-150PW-LPM4
1-1/2"	1 to 10	RB-150PU-GPM5	TB-150PU-GPM5	RT-150PU-GPM5	50	7 to 70	RB-150PW-LPM5	TB-150PW-LPM5	RT-150PW-LPM5
2"	30 to 300	RB-200PU-GPM1	TB-200PU-GPM1	RT-200PU-GPM1	63	4 to 40	RB-200PW-LPM1	TB-200PW-LPM1	RT-200PW-LPM1
2"	15 to 150	RB-200PU-GPM2	TB-200PU-GPM2	RT-200PU-GPM2	63	100 to 1000	RB-200PW-LPM2	TB-200PW-LPM2	RT-200PW-LPM2
2"	10 to 100	RB-200PU-GPM3	TB-200PU-GPM3	RT-200PU-GPM3	63	60 to 600	RB-200PW-LPM3	TB-200PW-LPM3	RT-200PW-LPM3
2"	6 to 60	RB-200PU-GPM4	TB-200PU-GPM4	RT-200PU-GPM4	63	25 to 250	RB-200PW-LPM4	TB-200PW-LPM4	RT-200PW-LPM4
2"	4 to 40	RB-200PU-GPM5	TB-200PU-GPM5	RT-200PU-GPM5	63	15 to 150	RB-200PW-LPM5	TB-200PW-LPM5	RT-200PW-LPM5
2"	2 to 20	RB-200PU-GPM6	TB-200PU-GPM6	RT-200PU-GPM6	63	7 to 70	RB-200PW-LPM6	TB-200PW-LPM6	RT-200PW-LPM6

