

DigiFlo Digital Paddlewheel Meters Engineering and Technical Data

F-1000 Saddle Mount Fitting Three Model Variations: • Rate of flow display • Total flow display • Rate & Total display

Features:

- · High accuracy digital paddlewheel technology.
- 1-1/2" through 12" and 50mm through 315mm pipe sizes.
- Flow rate from 15 to 8000 GPM (70 to 27000 LPM).
- Mounts vertically or horizontally.
- NEMA 4X (IP56) enclosure (not for direct sunlight).

Specifications:

Pipe Requirements:

Materials of Construction:

Saddle:.....PVDF or PVC Sensor, paddlewheel, axle:PVDF

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.		
90° Elbow	20 X Pipe I.D.	5 X Pipe I.D.		
Two Elbows -1 Direction	25 X Pipe I.D.	5 X Pipe I.D. 5 X Pipe I.D.		
Two Elbows -2 Directions	40 X Pipe I.D.			
Pump Or Gate Valves	50 X Pipe I.D.	5 X Pipe I.D.		

- Easy to read 6 digit LCD display, up to 4 decimal places.
- Tamper proof factory programming.
- Battery operated (2 AAA batteries included).
- Very low pressure drop.
- Total reset function can be disabled.

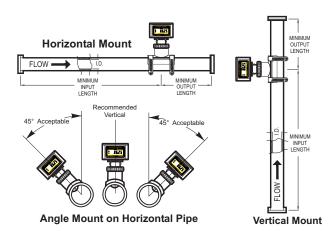
Max. ambient temp.:14° to 110° F/ -10° to 43° C

Note: Temperature & Pressure ratings of meter only. Actual pipe rating may vary.

Max pressure drop:0 PSI (No significant pressure drop)

Power requirement:2 AAA batteries (included)

Enclosure:NEMA 4X (IP56)
Approximate shipping wt: ...2 lb. (.91 kg)

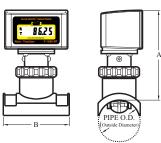


Mounting location

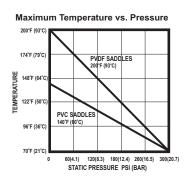
- The meter is designed to withstand outdoor conditions. A cool, dry location, where the unit can be easily serviced is recommended.
- The meter can be mounted on horizontal or vertical runs of pipe. Mounting at the vertical (twelve o'clock) position on horizontal pipe is recommended. Mounting anywhere 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.

DigiFlo Digital Paddlewheel Meters

Dimensions:

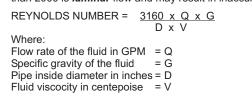


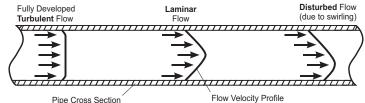
Pipe Size	Α	В		
1-1/2" (50mm)	4-5/16" (110)	3-3/16" (81)		
2" (63mm)	4-5/16" (110)	3-3/16" (81)		
2-1/2" (75mm)	4-5/16" (110)	3-3/16" (81)		
3" (90mm)	4-5/16" (110)	3-3/16" (81)		
4" (110mm)	4-5/16" (110)	3-3/16" (81)		
6" (160mm)	4-1/4" (108)	3-3/16" (81)		
8" (200mm)	4-1/4" (108)	3-3/16" (81)		
10" (250mm)	4-1/4" (108)	4-1/2" (114)		
12" (315mm)	4-1/4" (108)	4-1/2" (114)		
		Inches (mm)		

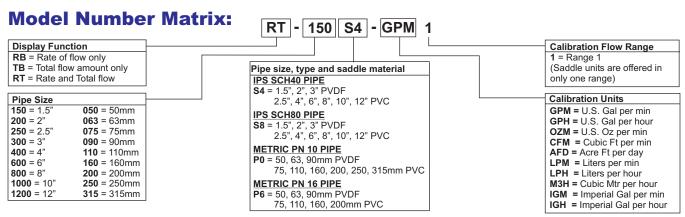


Flow Stream Requirements:

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.







Pipe Size, Flow Range and Display Model Options:

Models for U.S. IPS Sch40 Pipe (ASTM 1785)

Display in U.S. Gallons per Minute

Models for METRIC PN10 Pipe (DIN 8062) Display in Liters per Minute.

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Pipe Size	GPM Flow Range	RATE ONLY Model Number	TOTAL ONLY Model Number	RATE & TOTAL Model Number	Pipe Size	LPM Flow Range	RATE ONLY Model Number	TOTAL ONLY Model Number	RATE & TOTAL Model Number
1.5"	15 to 150	RB-150S4-GPM1	TB-150S4-GPM1	RT-150S4-GPM1	50mm	70 to 700	RB-050P0-LPM1	TB-050P0-LPM1	RT-050P0-LPM1
2"	30 to 300	RB-200S4-GPM1	TB-200S4-GPM1	RT-200S4-GPM1	63mm	110 to 1100	RB-063P0-LPM1	TB-063P0-LPM1	RT-063P0-LPM1
2.5"	40 to 400	RB-250S4-GPM1	TB-250S4-GPM1	RT-250S4-GPM1	75mm	150 to 1500	RB-075P0-LPM1	TB-075P0-LPM1	RT-075P0-LPM1
3"	60 to 600	RB-300S4-GPM1	TB-300S4-GPM1	RT-300S4-GPM1	90mm	230 to 2300	RB-090P0-LPM1	TB-090P0-LPM1	RT-090P0-LPM1
4"	100 to 1000	RB-400S4-GPM1	TB-400S4-GPM1	RT-400S4-GPM1	110mm	350 to 3500	RB-110P0-LPM1	TB-110P0-LPM1	RT-110P0-LPM1
6"	250 to 2500	RB-600S4-GPM1	TB-600S4-GPM1	RT-600S4-GPM1	160mm	720 to 7200	RB-160P0-LPM1	TB-160P0-LPM1	RT-160P0-LPM1
8"	400 to 4000	RB-800S4-GPM1	TB-800S4-GPM1	RT-800S4-GPM1	200mm	1150 to 11500	RB-200P0-LPM1	TB-200P0-LPM1	RT-200P0-LPM1
10"	600 to 6000	RB-1000S4-GPM1	TB-1000S4-GPM1	RT-1000S4-GPM1	250mm	1700 to 17000	RB-250P0-LPM1	TB-250P0-LPM1	RT-250P0-LPM1
12"	800 to 8000	RR-1200S4-GPM1	TR-1200S4-GPM1	RT-1200S4-GPM1	315mm	2700 to 27000	RR-315P0-I PM1	TR-315P0-I PM1	RT-315P0-I PM1

