

BW DIGI-METER® PADDLEWHEEL FLOWMETERS

The BW DIGI-METER® is the meter of choice when your application requires an Innovative, Accurate and Versatile Digital Flowmeter.

BW DIGI-METER® F-1000 PADDLEWHEEL FLOWMETER

Blue-White's carefully engineered BW DIGI-METER F-1000 Series include premier features and provide outstanding performance.

Three versions of the BW DIGI-METER F-1000 are offered. The F-1000RB Unit is a rate meter only; the F-1000TB Unit is a flow totalizer; and the F-1000RT Unit is both a Rate Meter and Flow Totalizer. BW DIGI-METERS are available with a number of configuration and mounting style options. If you don't see the unit that meets your requirements here, please contact our courteous and knowledgeable staff for assistance.

F-1000 BENEFITS

- Easy to read six digit LCD, up to four decimal positions.
- Tamper proof.
- Battery operated (2 AAA batteries included).
- Three model variations:
 - RB = RATE ONLY
 - TB = TOTAL ONLY
 - RT = RATE & TOTALIZER
- Total reset function can be disabled.
- Display update time: Rate 1.5 sec., Total 0.5 sec.
- Factory calibrated - nothing to program.
- Custom calibration units available. Contact the factory.
- Weather resistant ABS enclosure. NEMA 4X
- Calibration Units: GPM, LPM, m³/min, oz/min, GPH, LPH.
- LCD is not recommended for direct sunlight applications.

F-1000 SPECIFICATIONS

with Saddle Mount Body

Max. Working Pressure	300 psig (20 bar) @ 70° F (21° C)
Max. Fluid Temperature	200° F (93° C) @ 0 PSI (all PVDF saddle fittings)
	140° F (60° C) @ 0 PSI (all PVC saddle and TEE fittings)
<i>Note: Temperature rating of F-1000 only. Actual pipe rating may vary.</i>	
Full scale accuracy	+/- 2%
Saddle material	PVDF (1-1/2", 2", 3", 50mm, 63mm, 90mm sizes)
	PVC (all other sizes)
Sensor/Paddle/Axle material	PVDF
O-ring seals	Viton
Max. pressure drop	0 psi (no significant drop)
Approximate shipping wt.	2 lb. (.91 kg)

with Solvent TEE Body

Max. Working Pressure	316 SS Tee fittings: 300 psig (20 bar) @ 70° F (21° C)
	PVC Tee fittings: 200 psig (13.8 bar) @ 70° F (21° C)
Max. Fluid Temperature	316 SS Tee fittings: 200° F (93° C) @ 0 PSI
	PVC Tee fittings: 140° F (60° C) @ 0 PSI
Full scale accuracy	+/- 2%
Tee material options	316 Stainless Steel, PVC
Body, Paddle, Axle material	PVDF
Axle options	Ceramic, Hastelloy, Titanium
O-ring seals	Viton
Max. pressure drop	0 psi (no significant drop)
Approximate shipping wt.	2 lb. (.91 kg)

with Molded In-Line Body

Max. Working Pressure	300 psig (20 bar) @ 70° F (21° C)
Max. Fluid Temperature	200° F (93° C) @ 0 PSI
Full scale accuracy	+/- 2%
Meter body material	Polysulfone
Sensor/Paddle/Axle material	PVDF
O-ring seals	Viton
Max. pressure drop	8 psi (varies per model)
Approximate shipping wt.	2 lb. (.91 kg)

with Machined In-Line Body

Max. Working Pressure	300 psig (20 bar) @ 70° F (21° C)
Max. Fluid Temperature	200° F (93° C) @ 0 PSI
Full scale accuracy	+/- 2%
Sensor/Paddle/Axle material	PVDF
O-ring seals	Viton
Max. pressure drop	8 psi (varies per model)
Approximate shipping wt.	5 lb. (2.31 kg)



BW DIGI-METER® F-1000 with Saddle Mount
PIPE SIZES
1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10", 12"

BW DIGI-METER® F-1000 with Solvent TEE Body
PIPE SIZES
1", 1-1/2", 2"



BW DIGI-METER® F-1000 with Molded In-Line Body
PIPE SIZES
1/4", 3/8", 1/2", 3/4", 1", 2" M/NPT



BW DIGI-METER® F-1000 with Machined In-Line Body
PIPE SIZES
1/4", 3/8", 1/2", 3/4", 1", 2" F/NPT

* Viton® is a registered trademark of DuPont.



DIGI-METER F-2000 PADDLEWHEEL FLOWMETER

The thoughtfully engineered BW DIGI-METER® F-2000 combine innovative features and benefits, and the finest materials of construction to provide an accurate and versatile Digital Flowmeter.

If you don't see the unit that matches your requirements listed here, please contact our courteous and knowledgeable staff for assistance

FOUR MODEL VARIATIONS

- RT** = Rate and Totalizer. Transformer or battery operated.
- AO** = 4-20mA, 0-10 VDC analog output, flow rate & totalizer. Transformer operated.
- PC** = Batch processing, flow rate alarm, proportional chemical metering, flow rate and totalizer. Transformer operated.
- AP** = Analog output, batch processing, flow rate alarm, proportional chemical metering, flow rate and totalizer. Transformer operated.

F-2000 BENEFITS

- Easy to read 8 digit LCD, up to 4 decimal positions.
- Flow rate and Total flow display.
- AC/DC transformer or battery operated (RT models only). 4 AA batteries.
- Factory programmed with calibration certificate.
- Field programmable via front panel touch pad.
- Front panel security lockout.
- Total reset function can be disabled.
- Weather resistant ABS enclosure. NEMA 4X.
Note: LCD is not recommended for direct sunlight applications.
- Panel mounting option available.
- Custom calibration units available. Contact the factory.

F-2000 SPECIFICATIONS

with Saddle Mount & Solvent TEE Body

Max. Working Pressure.....300 psig (20 bar) @ 70° F (21° C)
 Max. Fluid Temperature.....200° F (93° C) @ 0 PSI
 Full Scale Accuracy.....+/- 2%
 Sensor/Paddle/Axle Material....PVDF
 O-ring Seals.....Viton®
 Max. Pressure Drop.....0 psi (no significant pressure drop)
 Approx. Shipping Weight.....2 lb. (.91 kg)

with Molded In-Line Body

Max. Working Pressure.....300 psig (20 bar) @ 70° F (21° C)
 Max. Fluid Temperature.....200° F (93° C) @ 0 PSI
 Full Scale Accuracy.....+/- 2%
 Sensor/Paddle/Axle Material....PVDF
 O-ring Seals.....Viton®
 Max. Pressure Drop.....8 psi (varies per model)
 Approx. Shipping Weight.....2 lb. (.91 kg)

with Machined In-Line Body

Max. Working Pressure.....300 psig (20 bar) @ 70° F (21° C)
 Max. Fluid Temperature.....200° F (93° C) @ 0 PSI
 Full Scale Accuracy.....+/- 2%
 Sensor/Paddle/Axle Material....PVDF
 O-ring Seals.....Viton®
 Max. Pressure Drop.....8 psi (varies per model)
 Approx. Shipping Weight.....5 lb. (2.3 kg)



BW DIGI-METER® F-2000 with Molded In-Line Body

PIPE SIZES
3/8", 1/2", 3/4", 1", 1-1/2", 2"



BW DIGI-METER® F-2000 with Saddle Mount

PIPE SIZES
1-1/2", 2", 2-1/2", 3",
4", 6", 8", 10", 12"



BW DIGI-METER® F-2000 with Machined In-Line Body

PIPE SIZES
3/8", 1/2", 3/4", 1", 1-1/2", 2" FNPT



BW DIGI-METER® F-2000 with Solvent TEE Body

PIPE SIZES
1", 1-1/2", 2"



DIGI-METER F-2000 FLOW MONITORING SYSTEM

BW DIGI-METER® F-2000 Series electronic insertion style flowmeters, are well suited for monitoring flow in municipal water and wastewater applications.

The clamp on saddle fitting and insertion sensor is quickly installed on IPS (ASTM-D-1785) pipe sizes from 1-1/2" through 12" and metric (DIN 8062) pipe sizes from 50mm through 315mm. The electronic display and communication enclosure can be mounted directly to the sensor, or remotely mounted to a pipe or panel.

Standard F-2000 models display flow rate and accumulated total flow, and include an NPN open collector output for communication with data loggers, SCADA systems, and other external devices. For additional information and assistance, please contact the factory.



BW DIGI-METER® F-2000 Flow Monitoring System

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BW DIGI-METER F-2000 with DIGITAL HALL EFFECT OUTPUT SIGNAL



F-2000 BENEFITS

- TTL/CMOS compatible, current sinking output signal.
- Optional AC sine wave output.
- One mile signal range without sensor available.
- NEMA 4X rated boosters

F-2000 SPECIFICATIONS

Max. Working Pressure.....300 psig (20 bar) @ 70°F (21°C)
 Max. Fluid Temperature.....200°F (93°C) @ 0 PSI
 (In-Line Polypro and PVDF saddles)
 140°F (60°C) @ 0 PSI
 (PVC saddles and TEE fittings)
 Note: Temperature rating of F-1000 only. Actual pipe rating may vary.
 Power Requirements.....6-24VDC, AC/DC transformer sold separately.
 Full Scale Accuracy.....+/- 1%
 Sensor/Paddle/Axle Material PVDF
 O-ring Seals.....Viton®
 Approx. Shipping Weight.....2 lb. (0.9 kg)

BW DIGI-METER F-1000 & F-2000 Installation Options & Dimensions

MOLDED IN-LINE

- One piece injection molded construction.
- Male pipe thread in-line installation.
- Polypropylene fittings for standard applications.

• PVDF material for highly corrosive applications.

Max. PSI.....300 psig (20 bar) @ 70°F (21°C)
 Max. Temp.....200°F (93°C) @ 0 PSI
 Note: Temperature rating of pipe fitting only. Actual pipe rating may vary
PIPE SIZES: 3/8", 1/2", 3/4", 1", 1-1/2", 2" M/NPT

MACHINED IN-LINE

- Machined from solid bar and sheet stock.
- Union and F/NPT pipe adapter connections for easy installation.
- Internal gland o-ring adapter seals provide greater protection against installation misalignment and vibration.
- Polypropylene fittings for standard applications.
- PVDF material for highly corrosive applications.

Max. PSI.....300 psig (20 bar) @ 70°F (21°C)
 Max. Temp.....200°F (93°C) @ 0 PSI
 Note: Temperature rating of pipe fitting only. Actual pipe rating may vary
PIPE SIZES: 3/8", 1/2", 3/4", 1", 1-1/2", 2" F/NPT

SADDLE MOUNT

- 1-1/2" thru 3" (50mm thru 90mm) injection molded PVDF.
- 3" thru 12" (110mm thru 315mm) machined from solid PVC sheet stock.
- Installs on existing pipe - no other fittings are required.
- No added pressure drop to system.

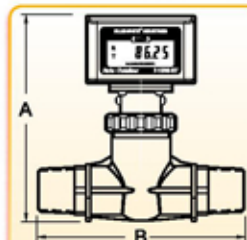
Max. PSI.....300 psig (20 bar) @ 70°F (21°C)
 Max. Temp.....200°F (93°C) @ 0 PSI PVC: 140°F (60°C) @ 0 PSI
 Note: Temperature rating of pipe fitting only. Actual pipe rating may vary
 O-ring Seals.....Viton®

I.P.S. PIPE SIZES: 1-1/2", 2", 3", 4", 6", 8", 10", 12"
METRIC PIPE SIZES: 50, 63, 90, 110, 160, 200, 250, 315mm

TEE

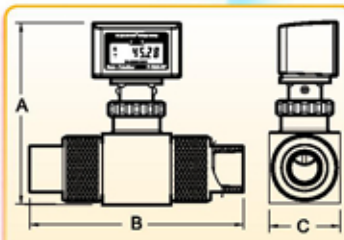
- Easy to install. • No added pressure drop to system.
- Max. PSI.....316 SS TEE: 300 psig (20 bar) @ 70°F (21°C)
 PVC TEE: 200 psig (13.8 bar) @ 70°F (21°C)
 Max. Temp.....316 SS TEE: 200°F (93°C) @ 0 PSI
 PVC TEE: 140°F (60°C) @ 0 PSI

PIPE SIZES: 1", 1-1/2", 2"



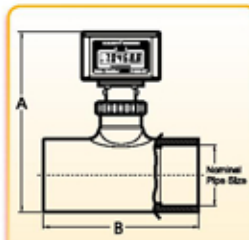
F-1000 with MOLDED In-Line Body

PIPE SIZE	A	B
3/8" MPT	5-3/8"	4-3/4"
1/2" MPT	5-3/8"	5-1/8"
3/4" MPT	5-3/8"	5-1/4"
1" MPT	5-3/8"	5-5/8"
1-1/2" MPT	6-1/8"	6-1/2"
2" MPT	6-3/8"	6-3/4"



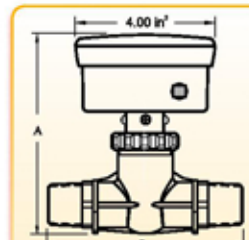
F-1000 with MACHINED In-Line Body

PIPE SIZE	A	B	C
3/8" FPT	6-3/8"	7-1/2"	2-1/2"
1/2" FPT	6-3/8"	7-1/2"	2-1/2"
3/4" FPT	6-3/8"	7-1/2"	2-1/2"
1" FPT	6-3/8"	7-1/2"	2-1/2"
1-1/2" FPT	6-5/8"	9-1/2"	2-1/2"
2" FPT	7"	11-1/2"	3"



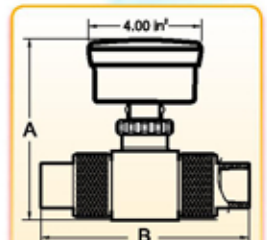
F-1000 with SOLVENT TEE Body

PIPE SIZE	A	B
1"	4"	6"
1-1/2"	4-1/2"	6-5/8"
2"	4-3/4"	7-1/8"



F-2000 with MOLDED In-Line Body

PIPE SIZE	A	B
3/8" MPT	5-7/8"	4-3/4"
1/2" MPT	5-7/8"	5-1/8"
3/4" MPT	6"	5-1/4"
1" MPT	6"	5-5/8"
1-1/2" MPT	6-1/2"	7"
2" MPT	6-3/4"	7"



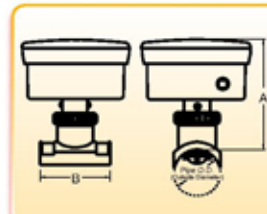
F-2000 with MACHINED In-Line Body

PIPE SIZE	A	B
3/8" FPT	6-3/8"	7-1/2"
1/2" FPT	6-3/8"	7-1/2"
3/4" FPT	6-3/8"	7-1/2"
1" FPT	6-3/8"	7-1/2"
1-1/2" FPT	6-5/8"	9-1/2"
2" FPT	7-1/8"	11-1/2"



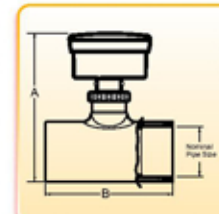
F-1000 with SADDLE MOUNT Body

PIPE SIZE (mm)	A	B
150(050)	4-5/16"	3-3/16"
200(063)	4-5/16"	3-3/16"
300(090)	4-5/16"	3-3/16"
400(110)	4-5/16"	3-3/16"
600(160)	4-1/4"	3-3/16"
800(200)	4-1/4"	3-3/16"
1000(250)	4-1/4"	4-1/2"
1200(315)	4-1/4"	4-1/2"



F-2000 with SADDLE MOUNT Body

PIPE SIZE (mm)	A	B
150(050)	4-1/2"	3-3/16"
200(063)	4-1/2"	3-3/16"
300(090)	4-1/2"	3-3/16"
400(110)	4-1/2"	3-3/16"
600(160)	4-3/8"	3-3/16"
800(200)	4-3/8"	3-3/16"
1000(250)	4-3/8"	4-1/2"
1200(315)	4-1/2"	4-1/2"



F-2000 with SOLVENT TEE Body

PIPE SIZE	A	B
1"	6"	4"
1-1/2"	6-5/8"	4-1/2"
2"	7-1/8"	4-3/4"

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