

### F-2000

**Molded In-line Fitting**  
**Remote Mount Display**  
**Three Display Options:**

- Rate & Total Display Only
- Rate, Total, Analog output
- Rate, Total, Process Control



### Features:

- High accuracy digital paddlewheel technology.
- 3/8", 1/2", 3/4", 1", 1-1/2", and 2" male pipe threads.
- Flow rate from .4 to 200 GPM (1 to 700 LPM)
- Rate and total flow display.
- Optional Process Control alarm or batch processing relay.
- Optional 4-20mA or 0-10VDC output.
- Large, 8 digit LCD display, up to 4 decimal places.
- Remote mount display on panel, pipe or wall.
- Very low pressure drop.
- Total reset function can be disabled.
- Front panel security lock-out.
- Field programmable.

### Specifications:

**Max. working pressure:** .....300 PSI (20 bar) @ 70° F (21° C)  
**Max. fluid temperature:** .....200° F (93° C) @ 0 PSI  
**Max. ambient temperature:** ..14° to 110° F / -10° to 43° C  
**Full scale accuracy:** .....+/- 1%  
**Power requirement:** .....16-24VDC  
 Model RT units only: .....4 AA batteries or AC/DC transformer  
 All units:..... AC/DC transformer

**Signal Distance:** .... AC sine wave sensor = 200 ft (60 m)  
 Optional Hall Effect sensor = 1 mile (1.6 km)  
**Signal Cable:** ..... 3 conductor shielded. Included 25 ft. (7,6 m)  
**Max pressure drop:** 8 PSI (varies per model)  
**Enclosure:** ..... NEMA 4X (IP56)  
**Approx ship wt:** .... 2 lb. (.91 kg)

### Materials of Construction:

**Pipe fitting:** .....Polypropylene (options: PVDF)  
**Sensor, paddlewheel, axle:** ..PVDF  
**Sensor O-ring seals:** .....Viton<sup>®</sup> (optional EP)

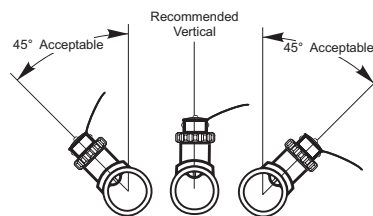
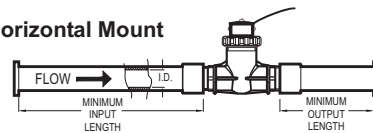
### Installation Requirements:

#### Minimum Straight Pipe Length Requirements

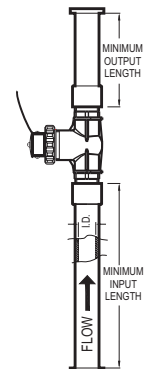
The meter's accuracy is affected by disturbances such as pumps, elbows, tees, valves, etc., in the flow stream. Install the meter in a straight run of pipe **as far as possible** from any disturbances. The distance required for accuracy will depend on the type of disturbance.

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.
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.

#### Horizontal Mount



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.

