Engineering Specification Sheet

Blue-White Industries model F-1000 Electronic Flowmeter

General

Three models shall be available. All models shall be available for use on IPS pipe sizes 3/8" through 12" and metric pipe (DIN 8062) sizes 50mm through 315mm. The flowmeter shall incorporate a paddle wheel type insertion sensor and a 6 digit LCD digital display which is mounted directly on the sensor. The electronics shall be battery operated using two standard AAA size batteries. Battery life shall be greater than one year. The batteries shall be field replaceable. The memory shall not be affected by the loss of battery power. The digital display shall be tamper resistant and shall not permit field programming by the user. Factory programming shall be to any required units of measure. The digital display shall be housed in a corrosion resistant ABS enclosure and shall be acceptable for outdoor use (NEMA 4X).

Model F-1000-RB

The F-1000-RB shall be capable of displaying the rate of flow. Metering accuracy shall be +/- 2% of the full scale flow rate range.

Model F-1000-TB

The F-1000-TB shall be capable of displaying the total accumulated flow. The accumulated flow shall be reset to zero by pressing the front panel tactile switch. The reset function shall be disabled by adjusting a jumper switch located inside the enclosure. Metering accuracy shall be +/- 2% of the full scale flow rate range.

Model F-1000-RT

The F-1000-RT shall be capable of displaying the rate of flow and the total accumulated flow. The flow rate and total flow display screens shall be accessed alternately by pressing the front panel tactile switch. The accumulated flow shall be reset to zero by pressing and holding the front panel tactile switch while the total flow amount displayed. The reset function shall be disabled by adjusting a jumper switch located inside the enclosure. Metering accuracy shall be +/- 2% of the full scale flow rate range.

Mounting

Saddle mount models

The unit shall be easily mounted on schedule 40 or schedule 80 IPS pipe or PN10 or PN16 metric DIN 8062 pipe by drilling a 1-1/8" diameter hole and clamping the saddle onto the pipe using stainless steel pipe clamps. The required pipe clamps shall be provided with each meter.

In-line models

The unit shall be easily installed in 3/8" through 2" IPS pipe. M/NPT or F/NPT pipe threads options shall be available.

Materials of construction

The wetted parts of the meter shall include the insertion Sensor Body, O-ring Seals, Paddle Assembly, Axle, and Saddle or in-line pipe fitting. The insertion sensor shall be constructed of PVDF (polyvinylidene fluoride). The two sensor o-rings seals and the pipe saddle o-ring seal shall be Viton. The Paddle assembly shall be PVDF (polyvinylidene fluoride). The axle shall be Hastelloy C-276 alloy (optional Titanium and Ceramic axle materials shall be available). 1-1/2", 2" and 3" diameter IPS pipe saddles and 50mm, 63mm, and 90mm metric pipe saddles shall be constructed of PVDF (polyvinylidene fluoride). 4", 6", 8", 10" and 12" diameter IPS pipe saddles and 110mm, 160mm, 200mm, 250mm, and 315mm metric pipe saddles shall be constructed of PVC. Pipe clamps shall be 400 series stainless steel. In-line pipe fittings shall be polypropylene or optional PVDF.