



EUREKA

Website: www.eurekaflow.com



INSERTION PROBE MAGBAR 600 SIGNAL CONVERTER MSP 3000



FEATURES

- Low cost flow metering for large pipes
- On-line installation /Removal of probe
- All SS construction of Probe with epoxy and Neoprene wetted parts
- Options for digital data transmission
- Isolated 4 to 20 mA current output
- Data Logger with RTC & Printer Port
- IP65 field Mountable enclosure
- Insertion Probe can be located up to 100 mtrs away from Signal converter

INTRODUCTION

Magbar 600 and MSP 3000 form a versatile flow meter for conductive liquids such as Raw Water, Chilled water, effluents, Potable water etc . Using time proven electromagnetic flow metering principle, Magbar achieves a low cost flow meter for pipes larger than 200 mm. Since there are no moving parts, the flow meter gives years of maintenance free service. The insertion probe is available with On-Line insertion/Removal version and fixed versions. Wherever there is a possibility of shutting down the flow to atmospheric pressures, fixed versions is a cost effective solution. Signal Converter MSP3000 is available with all the features required in a field mounted water metering equipment. These include - weather proof enclosure, communication options, RTC with data logging with Centronics parallel port print output option and 4 to 20 mA isolated Flow signal transmission option for process control. The converter is available as field mounted-IP65 protection category.

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INSERTION PROBE MAGBAR 600

- 1) **Accuracy** : +/-0.03 m/Sec +/- 1% of velocity
- 2) **Resolution** : 0.01 m/sec
- 3) **Velocity & Totaliser** : **Forward flow Ranges**
option 1 : 0 to 2.5 m/sec
option 2 : 0 to 5.0 m/sec
- Reverse flow range**
option 1 : 0 to - 1.0 m/sec
option 2 : 0 to - 2.0 m/sec
- 4) **Sensor length** : (Probe shall be inserted to a depth of Pipe ID/8)
- a) Non Retractable version:**
(Sensor length is measured from bottom of its mounting flange to the tip)
Suitable for pipe dia from
100 to 600 mm : 150 mm
Suitable for pipe dia from
800 to 1800 mm : 300 mm
Sensor Flange : DIN25, PN16
- b) Retractable version:**
Sensor Length : (Sensor length is measured from bottom of its mounting flange to the tip)
Suitable for pipe dia of
100 to 700 mm : 350 mm
Suitable for pipe dia of
800 to 1800 mm : 500 mm
- Other items of retractable assy.**
- Sensor Flange : ANSI 150#RF Flanges
 - Weldment length : 75mm standard with ANSI 150#RF Flange
 - 1 ¼" Ball Valve 3 piece, Teflon seal, Full Bore, ANSI 150#RF Flanges
 - Pressure seal - O rings-Neoprene
 - Sensor pipe ,weldment ,Fasteners and Flanges shall be SS304
 - Guide bars and Screw Jack : M.S. Nickel Plated
 - Sensor electrodes: SS316, Sensor Filling material: Epoxy Max
- 5) **Pressure Rating** :
10 Bar at 55°C (20Bar optional)
- 6) **Operating Temp (Medium and Ambient)** :
0 to 55 °C

SPECIFICATIONS

SIGNAL CONVERTER MSP 3000

- 1) **Power Supply** : 24Vdc Standard (24Vac, 110Vac, 240Vac optional)
- 2) **Power Consumption** : 12VA max
- 3) **Outputs** : RS 232 C standard *
4 to 20 mA in 500 ohms max Load
- RS485 with Modbus RTU protocol *
- Parallel port output (Printer) with RTC* (*serial communication or parallel port any one of the two is available at one time)
- 4) **Key Board and** : 6 Key Splash proof KeyBoard
- 5) **Programmable parameters** : Volume Units : ltrs, M3, ML, CF.BG
- Time Units : sec, min, hrs
4 to 20 mA range,
%Low flow cut off,
Pipe Dia, Velocity Range
Communication
Parameters
Calibration Constant
Filter Constant
- 6) **Accessories** : Weldment (to suit the pipe dia)
- 7) **On Line Insertion/removal** : Pressure Seal and Ball Valve (Optional)
- 8) **Calibration Certification** : CW & PRS Calibration certificate (Extra/Optional)