

Paddlewheel Flow Sensor/ Transmitter System

Model FP7002

£299

Basic Model



- ✓ Wide Chemical Compatibility
- ✓ 4-20 mA or 1-5 Vdc Field Selectable Output
- ✓ IP-65 Housing
- ✓ Compact Industrial Design Includes Both Paddlewheel Sensor and Process Transmitter in One Assembly

OMEGA's new FP7002 Series Paddlewheel sensor/transmitter flow system provides a low cost, factory calibrated, simple, and easy to install solution for applications requiring a remote long distance flow sensor located away from the main indicating meter or control instrumentation. When ordered with an OMEGA® installation fitting, the sensor/transmitter is factory calibrated to match the flow rate of the fitting selected. Example: if you ordered a FP7002 sensor/transmitter with a FP7010 PVC fitting, the analogue output of the transmitter will be factory calibrated to give 20ma output at the max flow rate of 190 LPM and 4ma out at the min flow rate of 11 LPM. The analogue output can be converted to 1-5 Vdc output in the field without recalibrating the system.

Model FP7002 Paddlewheel Flow Sensor/Transmitter Mounted in the FP7007 PVC Fitting

Shown almost actual size



SPECIFICATIONS

Accuracy: ±2% of full scale

Repeatability: ±1% of full scale

Power: 12 to 28 Vdc @ 50 mA maximum

Wetted Materials:

Sensor Body: Polypropylene

O-Ring: Viton®

Paddle: PVDF

Locking Nut: PVC

Fluid Temperature/Pressure Range:

Do not exceed maximum ratings of your piping. Depending on the material of the fitting, the operating temperature/ pressure may be limited by your piping and not by the sensor. For all PVC tee fittings, do not exceed 10bar @ 27°C, 6.9bar @ 38°C, 4bar @ 49°C or 2bar @ 60°C, due to the insert in the tee. FP7002 sensor: 0-26°C up to 10bar; max. pressure decreases 75mbar per each 0.56°C above 27°C for a max. temperature of 93°C at 1.2bar max.

Weight:

FP7002: 0.3 kg

Max Viscosity: 5 cps

Accessories

Model No.	Price	Description
DRN-PS-1000	£123	24 Vdc power supply
TX4-100	23.25	4-conductor shielded cable, 30m

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To Order (Specify Model Number)

Model No.	Price	Description
FP7002	£299	Paddlewheel flow sensor/transmitter

Comes with complete operator's manual.

Ordering Example: FP7002, plus FP7007, sensor/transmitter and fitting factory calibrated as a system, £299 + 63 = £362.

Required Installation Fittings

MOST POPULAR MODELS HIGHLIGHTED!

PVC, Sched. 40*				
Model No.	Price	Lay Length m (in)	Pipe Size	Range (l/m)
FP7007	£63	0.53 (21)	¾"	7.6-110
FP7010	63	0.66 (26)	1"	11-190
FP7012	66	0.79 (31.3)	1¼"	19-340
FP7015	74	0.95 (37.5)	1½"	26-470
FP7020	82	1.27 (50)	2"	42-775
FP7025	86	1.59 (62.5)	2½"	56-1075
FP7030	103	1.91 (75)	3"	95-1740

*All PVC fittings include 300mm of PVC pipe on the flow inlet and 90mm of PVC pipe on the flow outlet.