



TEC-SPEC
FLO-DAR™
Model 4000
Combined Radar
Area/Velocity Flow Sensor



Date: 13-10-2003

Rev.: 03

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FLO-DAR™ Model 4000 SR



FLO-DAR™ Model 4000 LR

The *FLO-DAR™* is the universal NON-CONTACT Flow Sensor to be connected to any MMI-Europe Open Channel Flow Logger and Transmitter like *FLO-LOGGER™* and *FLO-STATION™*.

Velocity Measurement

Method: Radar
Range: 0.2 to +6 meters per second
Accuracy: $\pm 0.5\%$ of reading, zero stability
Zero Stability: ± 0.03 m/s
Resolution: 0.001 m/s

Level Measurement

Method: Ultrasonic pulse echo
Range: 0.01 to 1.5 meters (Model 4000-SR).
0.01 to 6 meters (Model 4000-LR)
Accuracy: $\pm 1\%$ reading, zero stability. Includes non-linearity, hysteresis, and temperature effects.
Zero Stability: ± 0.005 m
Resolution: 0.001 m

Surcharge Level Measurement

Method: Piezo-resistive pressure transducer
Range: 3.5 m
Accuracy: $\pm 1\%$ of reading + zero stability. Includes non-linearity, hysteresis, and temperature effects.
Zero Stability: ± 0.01 m

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Flow Measurement

Method: Conversion of water level and pipe size to fluid area. Conversion of local velocity reading to mean velocity. Multiplication of fluid area by mean velocity to equal flow rate.

Conversion Accuracy: $\pm 5.0\%$ of reading. Assumes pipe is 10 to 90% full and with a level greater than 50 mm

Temperature (air) Measurement:

Method: digital thermometer

Range: -20° to 50° C

Material

Standard: Polystyrene

Dimensions: Model 4000-SR: 410 mm L, 175 mm W, 300 mm H
Weight: 5 Kg (with 9 m of sensor cable)
Model 4000-LR: 520 mm L, 175 mm W, 300 mm H
Weight: 6 Kg (with 9 m of sensor cable)

Operating Temperature Range: -10° to 50° C

Storage Temperature: -20° to 60° C

Sensor Cable

Material: Polyurethane jacketed

Length: Standard: 9 m

Optional: 18 m, 30 m or length as needed up to 300 m

Change without notice

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