DOF6000 SERIES FLOWMETER



Langy Professional Manufactuer of Ultrasonic Flowmeters

The DOF6000 series flowmeter consists of Flow Calculator and the Ultraflow 6537 Sensor, It is used to measure water velocity, depth, pressure temperature and conductivity of water flowing in rivers, streams, open channels and pipes.

When used with a companion Lanry DOF6000 Calculator, flow rate and total flow can also be calculated. The flow calculator can calculate the crosssectional area of partially filled pipes, open channel streams or rivers, for stream or river, with up to 20 coordinate points describing the river's shape of cross section. It is suitable for various applications. Ultraflow 6537 Velocity and level Sensor is a unique combination of water velocity, depth, pressure, conductivity and temperature instruments integrated with a solid state logger. It is a new generation of intelligent flow measurement systems.

SPECIFICATIONS

SENSOR SPECIFICATIONS	
VELOCITY RANGE:	20 mm/sec to 12 m/sec
VELOCITY ACCURACY:	± 1% measured velocity
VELOCITY RESOLUTION:	1 mm/s
DEPTH (ULTRASONIC) RANGE:	20 mm to 5000 mm (5m)
DEPTH (ULTRASONIC) ACCURACY:	±1% measured
DEPTH (ULTRASONIC) RESOLUTION:	1 mm
DEPTH (PRESSURE)RANGE:	0 mm to 10000 mm (10m)
DEPTH (PRESSURE)ACCURACY:	±1% measured
DEPTH (PRESSURE)RESOLUTION:	1 mm
TEMPERATURE RANGE:	0°C to 60°C
TEMPERATURE ACCURACY:	± 0.5°C
TEMPERATURE RESOLUTION:	0.1°C
ELECTRICAL CONDUCTIVITY (EC) RANGE:	0 to 200,000 μS/cm, typically ± 1% of measurement
ELECTRICAL CONDUCTIVITY (EC) RESOLUTION:	± 1 μS/cm May be recorded as a 16-bit value (0 to 65,535 μS/cm) or a 32-bit value (0 to 262,143 μS/cm)
TILT (ACCELEROMETER) RANGE:	± 70° in roll and pitch axes
TILT (ACCELEROMETER) ACCURACY:	± 1° for angles less than 45°
OUTPUT SDI-12:	SDI-12 v1.3, Maximum cable 50 metres
OUTPUT RS485:	Modbus RTU, Maximum cable 500 metres

Featuring:

- 20 coordinate points to describe cross section of the river's shape
- One instrument can measure the velocity, depth and conductivity simultaneously
- Velocity Range: 0.02mm/s to 12m/s bidirectional, accuracy is 1%
- Depth Range: 0 to 10m
- Measure velocity in both forward flow and back flow
 Depth is measured by both the pressure sensor and
- ultrasonic level sensor principles
- With barametric pressure compensation function
 IP68 Epoxy-sealed body design, designed for under water
- IP66 Epoxy-sealed body design, designed for under water installation
- RS485/MODBUS output, connect to computer directly
- Portable type with rechargeable battery can work up to 50 hours.

ENVIRONMENTAL OPERATING TEMPERATURE:	0°C ~+60°C water temperature
ENVIRONMENTAL STORAGE TEMPERATURE:	-20°C ~+60°C
ENVIRONMENTAL IP CLASS:	IP68
CABLE:	The standard cable is 15 metres, the maximum option is 500 metres
SENSOR MATERIAL:	Epoxy-sealed body, Marine Grade 316 Stainless Steel Mounting Bracket
SENSOR SIZE:	135 mm x 50 mm x 20 mm (L x W x H)
SENSOR WEIGHT:	1 kg with 15 metres of cable
CALCULATOR SPECIFICATIONS	
TYPE:	Wall-mounted and Portable can be optional
POWER SUPPLY:	Calculator: 85-265VC: 12-24VDC (only for wall-mounted type)
IP CLASS:	Calculator: IP66
OPERATING TEMPERATURE:	0°C ~+60°C
CASE MATERIAL:	Fiberglass (wall-mounted type) ABS (Portable Type)
DISPLAY:	4.5" colour LCD
OUTPUT:	Pulse, 4-20 mA (Flow & Depth), RS485/ Modbus, Datalogger, GPRS
SIZE:	270 L x 215 W x 175 H (mm)
WEIGHT:	3 kg
DATA STORAGE:	16 GB
APPLICATION:	Partially Filled Pipe: 150-6000 mm; Channel: width >200 mm

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