



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 cross-sectional area of partially filled pipe, open channel stream or river, for stream or river, it can input 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.



## Features

- 20 coordinate points to describe the river's shape of cross section.
- One instrument can measure the velocity, depth and conductivity at same time.
- Velocity Range : 0.02mm/s to 10m/s bi-directional, 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 coordinate correction and pressure compensation function.
- IP68 Epoxy-sealed body design, long time under water.
- RS485/MODBUS output, can contact computer directly.





## Specification:

### Sensor:

Velocity:	Velocity range:	20mm/sec to 12 m/sec
	Velocity accuracy:	±1% measured velocity
	Velocity resolution:	1mm/s
Depth (Ultrasonic):	Range:	20mm to 5000mm (5m)
	Accuracy:	± 1% typical
	Resolution:	1 mm
Depth (Pressure):	Range:	0mm to 10000mm (10m)
	Accuracy:	± 1% typical
	Resolution:	1 mm
Temperature:	Range:	0°C to 60°C
	Accuracy:	±0.5°C
	Resolution:	0.1°C
Conductivity (EC):	Range:	0 to 200,000 µS/cm, Typically ± 1% of measurement
	Resolution:	±1 µS/cm
Tilt (accelerometer):	Range:	±70° in roll and pitch axes.
	Accuracy:	±1° for angles less than 45°
	SDI-12:	SDI-12 v1.3, Max. cable 50m
Output:	Modbus:	Modbus RTU Max. cable 500m
	Operating temperature:	0°C ~+60°C water temperature
Environmental:	Storage temperature:	-20°C ~+60°C
	IP class:	IP68
	Cable:	The standard cable is 15m, the maximum option is 500m.
Others:	Sensor material:	Epoxy-sealed body, Marine Grade 316 Stainless Steel Mounting Bracket
	Sensor size:	135mm x 50mm x 20mm (L x W x H)
	Sensor weight:	1kg with 15m of cable, it can extend o 100m

### Calculator:

Type:	Wall-mounted
Power supply:	Calculator: 220VAC&24VDC; Sensor:12VDC
IP class:	Calculator: IP66
Operating temperature:	0°C ~+60°C
Case material:	Fiber Glass
Display:	4.5" color LCD
Output:	Pulse,4-20mA (Velocity & Deth) ,RS485/Modbus, Datalogger, GPRS
Size:	244L×196W×114H (mm)
Weight:	2.4 kg
Data storage:	16GB
Application:	Partially Filled Pipe: 150-6000mm; Channel: width >200mm