



Lanry



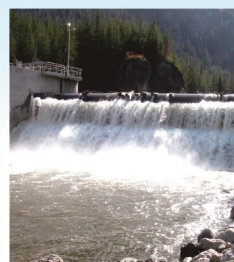
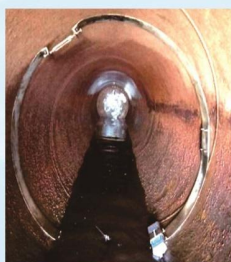
6526  
STARFLOW



6527  
STARFLOW QSD



6537  
ULTRAFLOW  
可测电导率 Conductivity



The ULTRAFLOW 6537 Instrument 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 calculator, flow rate and total flow can also be calculated. Ultraflow 6537 Instrument is robust, reliable and easy to use. It is completely sealed against water ingress, low maintenance – no calibration, low power – no fussy power arrangements needed. Ultrasonic Doppler Principle in Quadrature Sampling Mode is utilised to measure water velocity. 6537 transmits ultrasonic energy through its epoxy casing into the water. Suspended sediment particles, or small gas bubbles in the water reflect some of the transmitted ultrasonic energy back to 6537 instrument's ultrasonic receiver. Instrument then processes this received signal and calculates the water velocity. Water depth is also measured with both ultrasonic depth sensor and pressure sensor. This technology enables the Instrument to be completely sealed; potted in a solid block of 'ultrasonic-transparent' epoxy and free from any potential leaks that might otherwise occur.

6537 instrument is suitable for use in a wide range of water qualities, from sewage to potable water including sea water. However, it may not be as effective in clean, gas-free water.

6537 instrument measures velocity in both directions. With a companion Lanry Ultraflow software the instrument can be programmed to compute flow rate and total flow in pipes and open channels of known dimensions. Simply mount it on, or near the bottom of the water channel. The Instrument's low-profile form-factor minimises disturbance to the flow it's measuring.

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 Transducer 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:**

1. 20 coordinate points to describe the river's shape of cross section.
2. One instrument can measure the velocity, depth and conductivity at same time.
3. Velocity Range : 0.02m/s to 10m/s bi-directional, accuracy is 2%.
4. Depth Range: 0 to 10m
5. Measure velocity in both forward flow and back flow.
6. Depth is measured by both the pressure sensor and ultrasonic level sensor principles.
7. With coordinate correction and pressure compensation function.
8. IP68 Epoxy-sealed body design, long time under water.
9. RS485/MODBUS output, can contact computer directly.

**Specification:**

Power supply:	Calculator : 220VAC&24VDC ; Sensor:12VDC
IP class:	Calculator: IP66 , Sensor: IP68
Operating temperature:	0°C ~+60°C water temperature
Calculator show:	4.5" color LCD
Calculator output:	4-20mA , RS485( Modbus-RTU) , Data logger , GPRS
Sensor size:	135mm x 50mm x 20mm (L x W x H)
Application:	Partially Filled Pipe:200-10000mm; Open Channel: 200-10000mm
Flow calculation:	Velocity ; Totalizer
Pipe, Channel type	Partially filled pipe, Open Channel and River, Stream
Sensor material:	Epoxy-sealed body, Marine Grade 316 Stainless Steel Mounting Bracket
Sensor weight:	1kg with 15m of cable, it can extend o 100m
Velocity range:	0.02m/s to 10m/s in one direction or bidirectional flow capacity(ultraflow 6537 parameter setting)
Velocity accuracy:	±2% measured velocity
Velocity resolution:	1mm/s
Depth range:	20mm to 5m(Ultraflow 6527);20mm to 10m(ultraflow 6537)

Temperature resolution:	0.1°C
Cable:	The standard cable is 15m, the maximum option is 100m.
Power usage:	10V to 24VDC, 50μA standby, 100mA/s
SDI-12:	SDI-12V 1.3recorder (1200 baud smart instrument channel)



### Lanry Instruments(Shanghai) Co.,Ltd.

Shanghai address: Block F, 6 Floor, Building 5, No.2800 Jiuxin Road, Songjiang District, Shanghai, China.

Dalian Address: No.2-3 Zhenpeng East Rd., Economic and Technological Development Zone, Dalian 116600, China

Tel: 021-67618991/67801665 Fax: 021-67801625 <http://www.lanry-flow.com.cn> <http://www.ultraflowmeter.com>