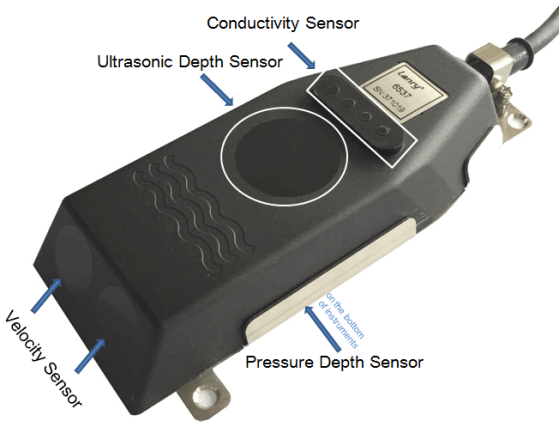
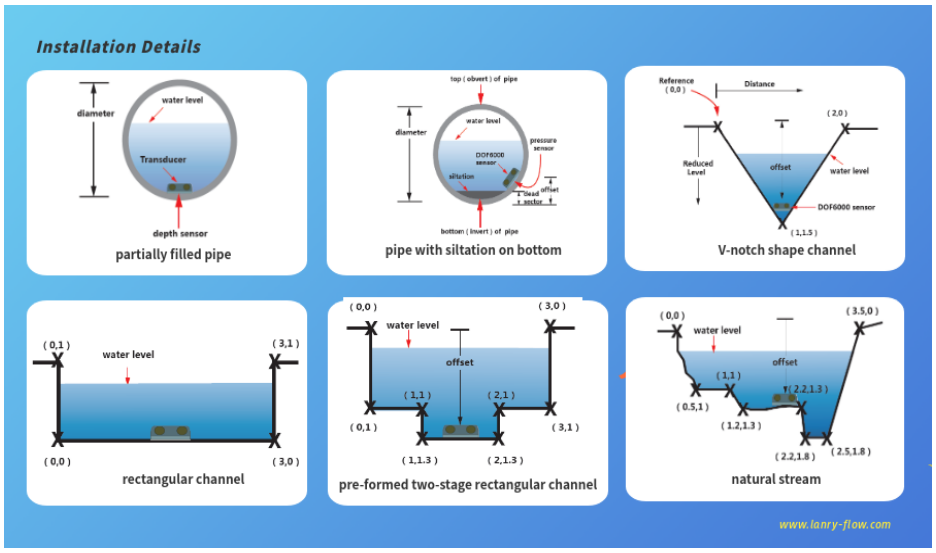
Ultraflow Open Channel Flowmeter



The **ULTRAFLOW 6537** is used to measure water velocity, depth, pressure, temperature and conductivity of water flowing in rivers, streams, open channels and pipes.

The Ultraflow 6537 is robust, reliable and easy to use, 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 transmitting 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 the 6537 ultrasonic receiver that are then processed and the water velocity is calculated. The water depth is also measured with both the ultrasonic depth 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



The Ultraflow 6537 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. Flow in both directions is measured and when used with the Ultraflow software flow rate and total flow in pipes and open channels is also possible.

Simply mount it on, or near the bottom of the water channel, the low-profile form-factor minimises disturbance to the flow it is measuring. The flow calculator can calculate the cross-sectional area of partially filled pipes, open channel streams or rivers. Input up to 20 coordinate points describing the rivers shape or cross section.

Ultraflow 6537 Velocity and Level Transducer is a unique combination of water velocity, depth, pressure, conductivity and temperature integrated with a solid state logger. It is a new generation of intelligent flow measurement systems.

- **20 coordinate points to describe the rivers shape or cross section**
- **One instrument can measure the velocity, depth and conductivity at the same time.**
- **Velocity Range : 0.02mm/s to 10m/s bi-directional, accuracy is 2%.**
- **Depth Range : 0 to 10m**
- **Measure velocity in both upstream and downstream**
- **Depth is measured by both the pressure and ultrasonic level sensor principles**
- **Fitted with coordinate correction and pressure compensation**
- **IP68 Epoxy-sealed body design**
- **RS485/MODBUS output**