

# Ultrasonic Flowmeter Application Report 28

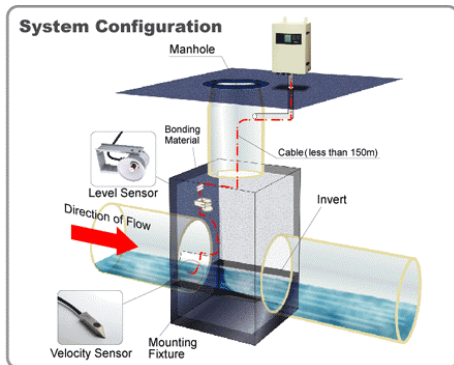
## - Open Channel for Sewage water-



The UVH-2000 series stationary, clamp-on ultrasonic flowmeter with multi-path measurement capability incorporating up to 2pcs of transducers placed inside channel provides stable instantaneous flow rate measurements.

At this particular site, the UVH-2000 series stationary flowmeter is installed as combined with multiple pairs of sensors and roof-mounted level gauge. It can measure the flow rate through more than 1000mm channel with least interference of flow.

Typical configuration is described as below system.



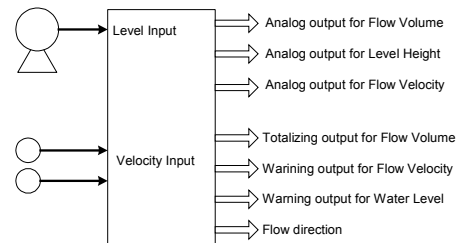
Only 1 pc of ultrasonic transducer can measure flow-velocity by pulse-doppler principle. 1 set of level gauge measures height of fluid surface. Then actual cross-section is calculated from predefined channel dimension and fluid height. Flow volume will be led as multiplied by velocity and fluid height. When water-level goes down to velocity transducer height, then automatically UVH-2000 will switch to HQ calculation mode.

Because of measuring actual flow velocity, UVH-2000 can measure 0-flow during even pooled water situation.

Multi-path measurement is a feature of our UVH-2000 series stationary open channel ultrasonic flowmeter. By employing the UVH-2000 series stationary open channel ultrasonic flowmeter in combination with the appropriate

sensor from the variety available and/or the system's multi-path measurement capability. You may be able to obtain high stable flow measurements of channel from 0.25m up to 5m in circular channel.

In addition, the all-in-one UVH-2000 main unit boasts 3 independent analog outputs each for flow rate, velocity and level. Also it has 4 contact outputs each for flow totalizing, velocity warning, level warning and direction.



### [ Channel Specification ]

Size : 1000mm

### [ Installation Data ]

Main Unit : Stationary Open Channel Ultrasonic Flowmeter UVH-2000  
 Transducer : SE204020B  
 Installation : 2 path

For more detailed information, please contact your local representative.

Representative in your Area