The ORAKEL Non-Contact Flow Monitoring System is a complete solution for measuring and monitoring the flow of water, where the submersion of sensors is prohibitive or undesirable.

**KEY FEATURES**

**ORKEL Analyser**
- A compact electronic control and communication system
- 4" colour screen with nine-button keypad for control and data entry
- Analogue inputs for 4-20mA sensors
- Analogue outputs for data loggers and SCADA systems
- Multiple language selection
- IP65 splash-proof casing
- Internal SD card logging

**Ultrasonic Level Sensor**
- Sophisticated method of determining surface level and therefore depth
- High performance echo discrimination
- Loop powered
- Easily fine-tuned to the site parameters
- ATEX Zone 1 approved

**Radar Velocity Sensor**
- Uses microwave technology to accurately measure velocity
- Excellent stability, accuracy and repeatability
- Loop powered
- ATEX Zone 1 approved with appropriate equipment

**ACCESSORIES**

All are supplied with a stainless steel mounting bracket and thermal shroud.

**Optional Accessories**
- ATEX Zone 1 galvanic isolator and sealed enclosure
- Multichannel data logger
- Full Detectronic Datacentre package

[www.detectronic.org/orakel](http://www.detectronic.org/orakel)
The ORAKEL Non-Contact Flow Sensor is designed for open-channel flow applications where no existing primary measurement device, such as a weir or flume, exists.

- Permanent and portable sewer monitoring programs
- Wastewater treatment plants
- Industrial process measurement
- Irrigation channels
- Effluent flow measurement
- Spill monitoring
- Combined Sewer Overflows (CSO)
- Sanitary Sewer Overflows (SSO)
- Event Duration Monitoring (EDM)

**TECHNICAL SPECIFICATION**

**ORAKEL Analyser**
- Power: 100-240VAC/0.25A or 12VDC/0.8A.
- Inputs: up to 4 configurable sensor inputs. 2 slots populated with 4-20mA analogue input cards.
- Outputs: up to 4 configurable outputs. 3 slots populated with 4-20mA analogue output cards.
- Dimensions: 309 x 230 x 103mm.
- Weight: 2kg.
- IP Rating: IP65, Nema 4X.
- Enclosure Material: flame retardant ABS.

**Ultrasonic Level Sensor**
- Loop powered: 4-20mA.
- Range: 0.125-3m.
- Accuracy: 2mm.
- IP68 sealed.
- Ex mb ATEX certified.
- Programmable with HART modem.
- Dimensions: 77mm dia. x 134mm.
- Weight: 1kg.
- Operating range: -40°C to 80°C.

**Radar Velocity Sensor**
- Loop powered: 4-20mA.
- Range: 0.2-6.0m/s.
- Accuracy: +/- 1.5% or 0.03m/s, whichever is greater.
- IP68 sealed.
- ATEX Zone 1 certified with Detectronic-approved galvanic isolator.
- Programmable with HART modem.
- Dimensions: 90mm dia. x 140mm.
- Weight: 0.7kg.
- Operating range: -20°C to 60°C.

**THE ORAKEL SYSTEM**

The ORAKEL System is an all-in-one measuring solution. Created as a modular system, with ORAKEL you can stop using multiple systems and measure every parameter you need with just one solution.

To learn more about the Detectronic ORAKEL System and how it can help your business, get in touch:

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