

A simple solution providing remote monitoring in hazardous environments, used as an essential aid for waste water level monitoring, capturing overflow events & early flood warning.

An ultrasonic level sensor that expands on Technolog's family of remote monitoring products. Easily interfaced to the Cello 4 IS allowing sophisticated alarm regimes for detecting and immediately alerting of abnormal conditions.

Key Features

- Simple and easy to install
- Flexible communication supporting 2G / NB-IoT / LTE Cat M1 *
- Remote data retrieval and configuration through Technolog's web based, UtiliCore platform
- Advanced profile and threshold alarms *
- Rugged and waterproof to IP68
- Suitable for monitoring rising levels in waste water chambers
- Intrinsically safe for Zone 0 deployment
- Bi-directional communication *
- Optional Water Industry Telemetry Standard (WITS) protocol compatible and verified

(* requires connection to a compatible Technolog data logger)



Technical Specifications

CSO Probe Specification

Input	Ultrasonic level measurement
Range	0.2 to 3m
Accuracy	+/- 2mm (under ideal operating conditions)
Temperature Sensor	Integrated, for temperature compensation of speed of sound
Beam Angle	12° at -3 dB boundary
Data Transmission	- Support for 2G, NB-IoT and LTE Cat M1 networks when connected via the Cello 4 IS
Alarm Dial-out	- High/low threshold and profile alarms via Cello 4 IS - Option to update data on alarm and more frequently thereafter via Cello 4 IS
Intrinsic Safety	Certified Intrinsically Safe: Sira 12ATEX2007X - Ex ia IIC T4 (Ta = -20 to +60°C) IECEX SIR 12.0001X - Ex ia IIC T4 (Ta = -20 to +60°C)
Environmental	Operating temperature: -20°C to +60°C Ingress protection classification: IP68 (1m / 24 hours)
Mechanical	Dimensions (mm): 217(h) x 82(w) x 88(d)

