# CSO

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AMETEK

## 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.

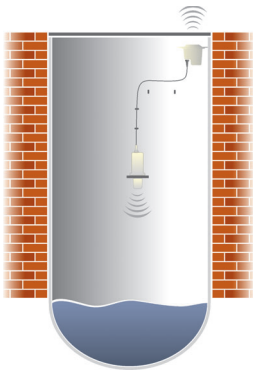
## Key Features

- 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<br>– Option to update data on alarm and more frequently thereafter via Cello 4 IS |
| **Intrinsic Safety** | **Certified Intrinsically Safe:**<br>Sira 12ATEX2007X – Ex ia IIC T4 (Ta = -20 to +60°C)<br>IECEx SIR 12.0001X - Ex ia IIC T4 (Ta = -20 to +60°C) |
| **Environmental** | **Operating temperature:** -20°C to +60°C<br>**Ingress protection classification:** IP68 (1m / 24 hours) |
| **Mechanical** | **Dimensions (mm):** 217(h) x 82(w) x 88(d) |





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