



# Asis Probe



## Underground Storage Tank Level Sensing

### Level Measurement Parameters

- ▶ **Probe Length:** Up to 4 meters custom (Standard lengths available)
- ▶ **Float Count 2:** Product & Water (STD Version)
- ▶ **Up to 4:** Density Applications (EXT Version)
- ▶ **Resolution:** 0.08 mm or %0.004 F.S. (which is greater)
- ▶ **Accuracy:** 0.5 mm or %0.02 F.S. (which is greater)
- ▶ **Top Dead Band:** 0 mm (With supplied floats)
- ▶ **Bottom Dead Band:** 0 mm (With supplied floats)

### Temperature Measurement Parameters

- ▶ **Sensor Count:** 4
- ▶ **Resolution:** 0.1 °C / Sensor
- ▶ **Accuracy:** 0.33 °C / Sensor (@ 30 °C)

### Temperature Parameters

- ▶ **Storage temperature:** -30 °C ... +70 °C
- ▶ **Operating temperature:** -30°C ... +70°C
- ▶ Proprietary Binary Digital over RS485

### Electronics

- ▶ **Supply Voltage:** 6-12 Volts (Limited to 10 volts for ATEX Approval)
- ▶ **Current Consumption:**
  - 1. Passive & Console Mode Max. 3mA @ IDLE
  - 2. Smart Mode Max. 100uA @ IDLE
- ▶ **Fail Safe:** High, Full Scale
- ▶ **Reverse Protection:** Series Diode
- ▶ **Transient Protection:** Line to Ground surge suppression

### Intrinsically Safe Entity Parameters

- ▶ **Input Capacitance:** 9uF
- ▶ **Input Power:** 0.6 W Max
- ▶ **Input Current:** 0.24A Max.
- ▶ **Input Voltage:** 10 VDC

### Materials / Mechanics

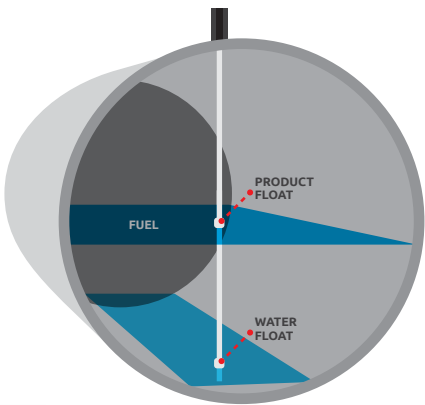
- ▶ **Sensor Head:** Anodized Aluminum & Stainless steel 316L
- ▶ **Sealing:** IP 68
- ▶ **Sensor outer pipe:** Stainless steel 1.4404/316L Ø16 mm x 1,5 mm
- ▶ **Mounting:** Fitting to flange with 2 inch Cast
  - ▶ Polyamide Reduction (zone1)
  - ▶ Fitting to flange with 2 inch
  - ▶ Riser Cap (zone 0)
- ▶ **Float styles:** Stainless steel 1.4404/316L
- ▶ **Connection:** 5-Pin M12 connector
- ▶ **Pressure rating:** Up to 10 bars on stainless steel float
- ▶ **Humidity:** 0 to 100% relative humidity, no condensing
- ▶ **Safety Approvals:** ATEX
- ▶ **Explosion Protection:** Ex II ½ G Ex ia IIA T5
- ▶ **Probe shaft resistance:** 30 bar

### Features

- ▶ 3-in-1 Measurement
  - ▶ Product
  - ▶ Interface water
  - ▶ Temperature
- ▶ No Scheduled Maintenance or Recalibration Intrinsically Safe (I.S.)
- ▶ ATEX safety approvals for Zones 0 and 1
- ▶ Three Different Operation Modes
  - ▶ Passive
  - ▶ Console (Features automatic measurement and reporting)
  - ▶ Smart (Features very low power consumption)
- ▶ Low Power Consumption (Max. 3mA)
- ▶ Low Input Voltage (5-12V)
- ▶ Proprietary Digital Binary Output over RS485 Bus
- ▶ Remotely Probe RESET
- ▶ Power Supply Monitor
- ▶ ALARM Logic
- ▶ Automatically ALARM Message sending. (Smart Mode)
- ▶ Automatically Measuring System (Console & Smart Mode)
- ▶ Running Up to 20 Automatically Average (Console Mode)

### Alarms

- ▶ Max. Product Level (mm)
- ▶ Min. Product Level (mm)
- ▶ Max. Product Level Variation (mm)
- ▶ Max. Water Level (mm)
- ▶ Min. Water Level (mm)
- ▶ Max. Water Level Variation (mm)
- ▶ Max. Supply Voltage (0.1 Volts)
- ▶ Min. Supply Voltage (0.1 Volts)
- ▶ All alarms can be switch on/off
- ▶ Alarm level is programmable for all alarms



Connection Pin-outs		
Pin No	Signal	Description
1	0 Volt	Supply Voltage Negative
2	RS 485 A	RS 485 A Line
3	RS 485 B	RS 485 B Line
4	9 Volt	Supply Voltage Positive
5	GND	Real Earth

