

ST1

The ST1 is an ultrasonic measuring liquid level device.
The ST1 consists of two components, a controller and a transducer.

Heavy Duty Hazardous Area Certified Simple to Install



FEATURES

- Can measure liquid levels up to 3500mm
- Powered from 12v to 24v dc supply
- LED display that shows realtime measurements
- ROTOHUB ready
- Ambient temperature compensation in enclosure
- 4..20mA or 0 to 5V analogue output (Jumper Selectable)
- Modbus serial communications on RS485 and 232. Modbus ASCII/ Modbus RTU
- Transducer approval Ex mb IIC T5 Gb (-20°C ≤Ta ≤+60°C)
- Display approval Ex d IIC T5 Gb (-20°C ≤Ta ≤+60°C)

BENEFITS

- No tank break in - easy installation
- No down- time during installation
- Simple retrofit to existing tanks
- Suitable for tanks of most shapes and materials
- Real time tank gauging
- No moving parts- no maintenance
- Can be used in addition to other instrumentation for complete tank monitoring.
- Long term investment



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GENERAL SPECIFICATION

Accuracy:	+/-0.5%
Measuring Range:	Up to 3000mm/ 10 feet (application dependent)
Temperature Range (Transducer) :	-20°C to +125°C -4°F to +257°F
Hazardous Area Approval (Transducer):	Ex mb IIC T5 Gb(-20°C≤Ta≤ 60°C) Cert No. IECEx BAS11.00.0039X
Analogue Outputs (Optional):	4..20mA (active) /0..5Vdc
Digital Alarm Outputs (Optional):	2 x Solid state volt-free contacts
Serial Outputs:	RS485 Modbus RTU/ ASCII
Protection Rating (Controller):	IP65
Protection Rating (Transducer):	IP66
Sensor Material:	Tufnol & stainless steel housing
Processor Enclosure Material:	Polycarbonate
Display Size (Optional):	70x43mm / 2.75x1.7"
Dimensions: (Controller/ Display Unit):	150x110x70mm/ 6x4.5x3"
Temperature Compensation:	Optional via TIUP

APPLICATION AREA

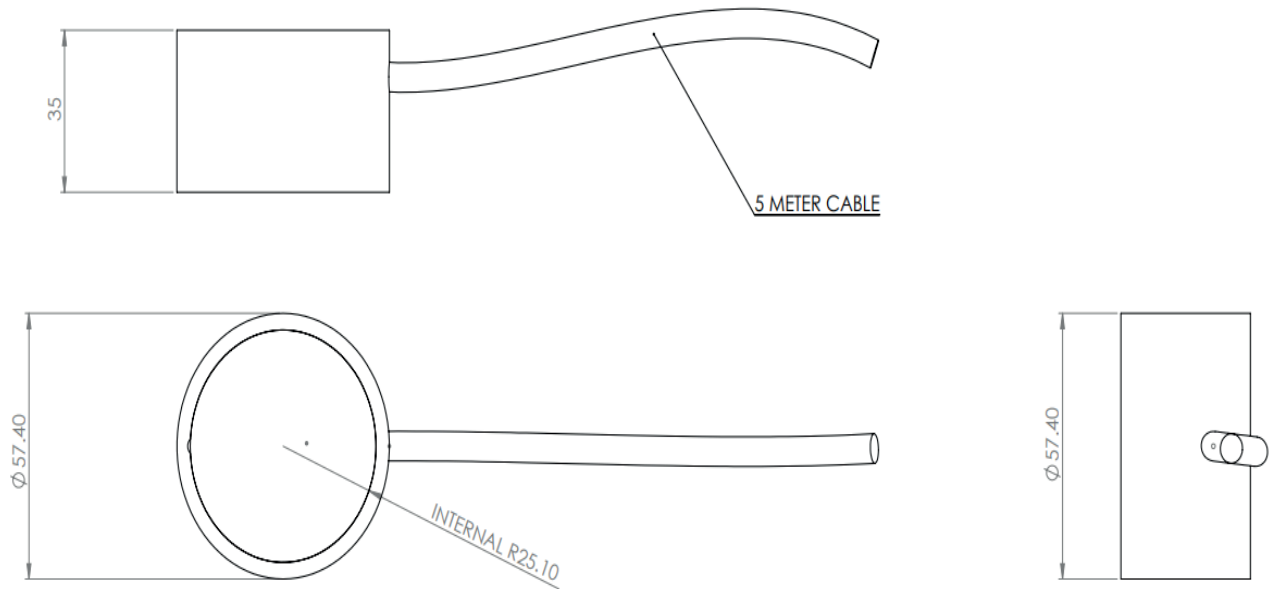
- Industrial
- Chemical
- Oil and Gas

APPLICATION OVERVIEW

Typical Application	Maximum Height	Number of Tanks	Hazardous Area Approval	Display	Variant
Fuel, water, light oils and acids	3.5 Meters	1	No	Optional	ST1
LPG and Small Spirit Tanks	3.5 Meters	1	Transducer Only	Optional	ST1(A)

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TRANSDUCER DIMENSIONS



ST1 DIMENSIONS

