

Liquid Level Sensor

7010 Liquid Level Sensor

Now with NPT fitting

A high precision sensor for measuring a wide range of liquids

The 7010 sensor is the ultimate in reliable liquid level measurement for challenging environments. Designed using best in class components, the sensor offers either current or voltage communication to PLC's or RTU's for IOT data collection.

Having no moving parts, fully sealed electronics and corrosion resistant stainless steel construction it offers unrivalled long lasting performance in water, fuel, oil, chemicals and coolants across a wide range of industrial applications.

Suited to tanks up to 2m deep, the range can be specified with different mounting arrangements for maximum flexibility for the installer.

Typical Applications

- Industrial Process Control
- Transportation
- Power Sector
- Off Highway & Military Vehicles

Key Features

- Stainless Steel construction
- Compatible with water, saline, fuels, oils & chemicals
- No moving parts for high reliability
- Accuracy +/- 2% FSD
- Selectable High/Low alarm
- Tank profiling for irregular shaped tanks
- 5 Bolt SAE or BSP, UNF or NPT thread mounting options

Benefits

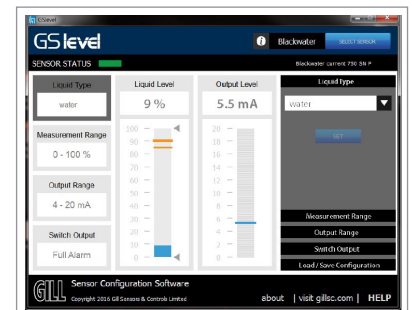
- Continuous liquid level measurement
- Solid state capacitive technology for reliable accuracy
- Accurate measurement from irregular shaped tanks
- No moving parts to maintain
- Standard or inverted installation possible
- Factory calibrated for easy installation



Sensor with sealed electronics



Sensor length up to 2m



'GSlevel' Calibration software available

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Technical Specification

General Specification	
Accuracy	+/- 2% FSD @ 20°C
Linearity	+/- 2% FSD @ 20°C
Operating Temperature	- 40°C to +125°C
Humidity	93% RH @ 40°C
Pressure	10 Bar (Differential & Absolute)
Compatible Media *	Fresh Water, Salt Water, Ethylene Glycol, Gasoline, Unleaded, LRP, Diesel * Consult Gill for other liquids
Seal Materials	Fluorosilicone O-rings (excl. NPT)
Ingress Protection	Klingsil gasket (excl. NPT) IP66, IP68

Outputs	
Voltage (Factory Settings)	0.25–4.75V
Max Voltage Range	0.25V—10.0V
Current	4—20mA
Switch	Open collector output 50V / 1A Max Switch to ground








Dimensions	
Overall Length	Probe length + 18mm (NPT + 27mm)
Mounting Flange Height	18mm (27mm NPT)
Mounting Flange Ø	63mm (60.4mm NPT)
Fixing Bolt Aperture Ø	5.1mm (excl NPT versions)
Cable Position	Side exit (Top exit NPT)









Approvals	
Ingress Protection	IP66 / IP68
Thermal Shock	EN 60945
Vibration	EN 60945
Humidity	EN 60945
Pressure	10 Bar (differential & absolute)
EMC	EN 610000, EN61326, EN 60945

Ordering		
Length Range (mm): 1 = 100 - 500 2 = 550 - 1000 3 = 1100 - 1500 4 = 1600 - 2000	Output Type: K = Voltage (0-10V) L = Current (4-20mA)	Mountings: A = 5 bolt SAE & 1.25" BSP thread B = 5 bolt SAE & 1.125" UNF thread C = 2"NPT thread
Exact Length (mm): 7010 - 00 - <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/>		

Electrical		
	Voltage 0-10v	Current 4-20mA
Supply Voltage	5-32V DC	9-32V DC
Over Voltage Protection	> 32 V DC	> 32 V DC
Supply Current @ 12 V DC	< 15 mA	> 15 mA
Reverse Polarity Protection	To -32V DC	To -32V DC
Resolution	10 Bit	10 Bit
Report Rate	100 Hz	100 Hz
Sensor Configuration *	RS232	RS232

Mechanical	
Construction	Stainless steel 316, FEP, PEI
Probe Length	100mm to 2000mm (standard increments)
Mounting Options	SAE 5-Bolt, 1.125" UNF 1.25" BSP threaded, 2" NPT
Weight	From 300g (dependant on length)
Cable	20 AWG Type 44, DR25
Cable Tail Length	1000mm

Connections		
	Red	+V
	Black	-V (Ground)
	Orange	Primary Output
	Yellow	Secondary Output
	Green	Rx
	White	Tx
	Silver	Drain Wire

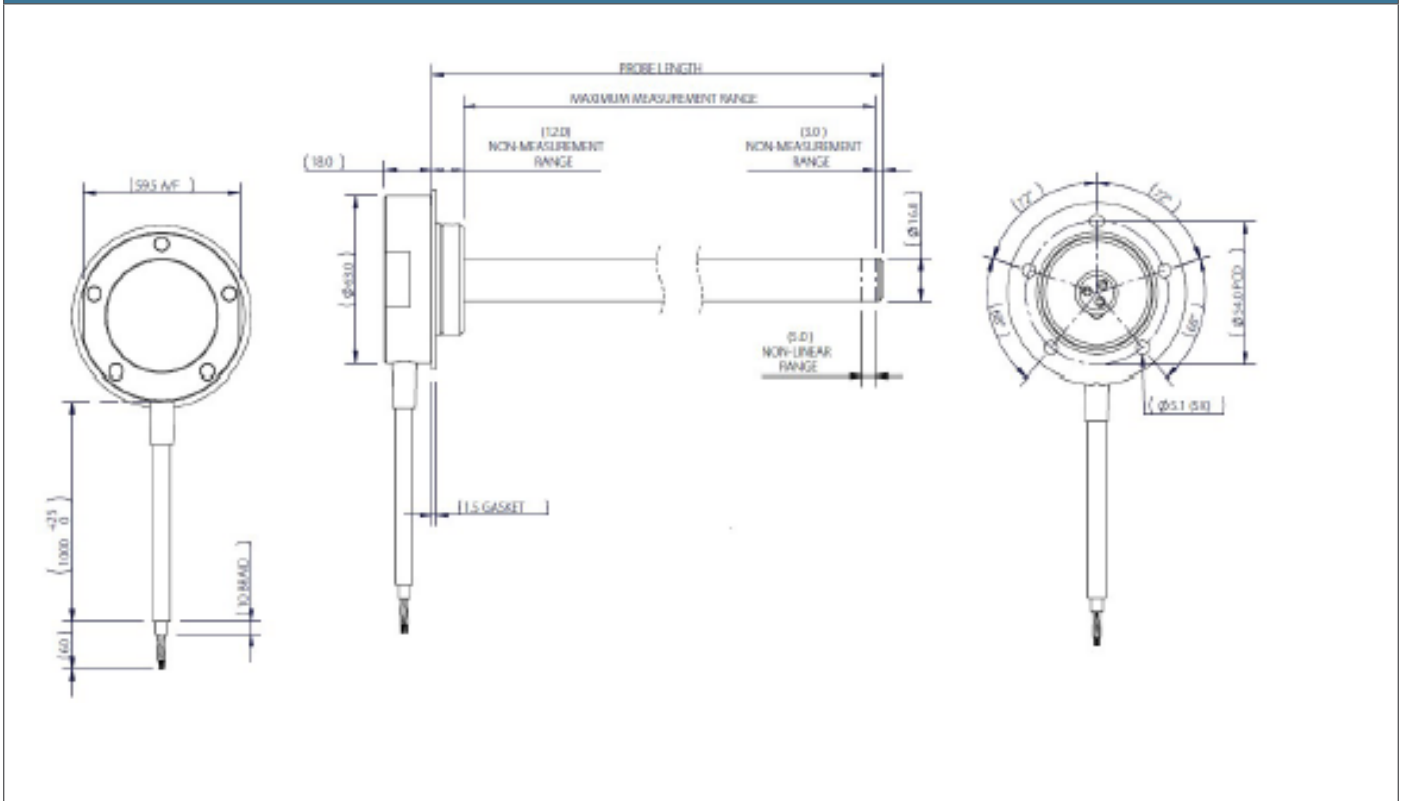
USB-RS232 adaptor (Part number 1484-00-086) *			
USB - RS232 Adaptor		Sensor	
	Red		Red
	Black		Black
	Yellow		White
	Orange		Green

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Detailed dimensions (5 BOLT SAE, 1.125" UNF & 1.25" BSP versions)



Detailed dimensions (2" NPT version)

