



Application

The COLM (COntec Level Measurement) G/LL65 vertical spiral gauge is a mechanically operated liquid level indicator with visual indication and two electrical outputs. The output is suitable for connection to typical controls or remote indicators and consists of a variable resistor proportional to the liquid level and a volt-free switch that triggers an alarm when the liquid level reaches a certain level. To avoid potential leaks, spiral gauge uses a magnetic coupling between the floating drive screw and the level indicator.



Specifications

Liquid Types

Liquids compatible with the construction materials: typically fuels, oils and water.

Dimensions

Length:	Min. 150 mm, Max. 1200 mm
Thread:	1½" BSPT or 1½" NPT
Weight:	0.36 Kg (Gauge Length, A = 600 mm)

Materials

Header:	30% Glass Filled Nylon 66
Guide Rail:	Anodised 6005-T5 Aluminium
End Cap:	30% Glass Filled Nylon 66
End Cap Screw:	A2 Stainless Steel
Spiral:	316 Stainless Steel
Float:	Polypropylene
Dial Capsule:	Polycarbonate
Leads:	XLPE Sheathed

Electrical

Supply Voltage:	9-32 VDC
Supply Current:	15 mA @ 12 VDC
Supply Protection:	Over voltage 80 VDC for 2 minutes. Reverse polarity.

Connections: 4-off 500 mm long 18AWG leads:

Red	Supply, V+
Black	Ground (0V)
Green	Signal, Ω
White	Switch to ground

Resistive Output:	Between 3-750 Ω or 750-3 Ω. Resolution 3 Ω. Max. dissipation 250 mW
Alarm Output:	Switch to ground. Max 100 mA. High or low level between 10% and 90% of gauge length. Default setting: low level alarm at 12% of gauge length, Minimum 10 mm travel from end-stops.

Options

Connector: The G/LL65 can be supplied with any suitable style of plug or receptacle.

Environmental Ratings

Designed to meet:

Ingress:	IP67
Operating Temp.:	-20 °C to 80 °C
Max tank pressure:	1 bar
EMC:	Type approval in accordance with EN ISO 13766:2006
Vibration:	1.88 Grms BS EN 60068-2-4:1995
Shock:	500 m-s-2, 11 ms, BS EN 60068-2-27:1993

