

COLM T/LL 400 Extended Temperature Range Liquid Level Sensor

Application

The COLM (COntec Level Measurement) liquid level sensor T/LL400 is a modern capacitive sensor, Continuous level monitoring and configurable voltage output. Voltage supply range 0-10 VDC. This compact and rugged sensor is designed for precise measurement and to provide repeatable level data. It is ideal for extended temperature range applications It is ideal for applications such as monitoring engine oil or coolant in relatively narrow tanks.



Liquid Types

Liquids compatible with the construction materials, typically engine and hydraulic oils, fuels or coolants.

Dimensions

Length:	Min. 80 mm, Max. 300 mm.
Thread:	½″ BSPT, ½″ BSPP, ½″ NPTF, 3/8″ NPTF,
	M14 x 1.5, M18 x 1.5, M22 x 1.5, M26 x 1.5.

Materials

Header:	316 stainless steel.
Stem:	316 stainless steel.
Internal electrodes	PTFE sheathed stainless steel.
End plug:	PTFE.
Wetted seals:	Fluorosilicone (FVMQ).
Connector	
enclosure:	30% glass filled nylon 66 (where fitted).
Leads:	XLPE wires sheathed in nylon 6 conduit
	(where fitted). Back-shell and connector
	dependant on series.

Electrical

Si	upply Voltage:	9 to 36 VDC.
21	upply Current:	10 mA @ 12 VDC + output load.
Sı	apply Protection:	80 VDC over voltage. Reverse polarity.
Si	gnal Output:	Voltage source. 2 $k\Omega$ min load. 10 mV resolution.
		Range 0 to10 VDC @ 24 VDC.
		Range 0 to 5 VDC @ 12 VDC.

Output Protection: Short circuit to supply. Short circuit to ground.

Connections:

	4P Metri- pack 150	Deutsch DT04-4P	Flying lead	Description
V+	С	2	Red	+ve supply 9-36 VDC
Ground	В	1	Black	-ve supply, 0V
Output	А	3	Green	In range 0-10 VDC
Alarm	D	4	White	Switch to ground. Max 100 mA.

Environmental Ratings

Ingress:	Liquid side - IP68, Connector side - IP67.				
Operating temp:	-40°C to 125°C.				
Max tank pressure: 1 bar.					
Alarm Output:	Switch to ground. Max 100 mA. Default low				
	level alarm at 12% of active length. Minimum				
	23 mm distance from end of probe. Minimum				
	35 mm from datum.				
EMC:	Type approval in accordance with				
	EN ISO 13766:2006.				
Vibration:	15.3 grms BS EN 60068-2-4:1995.				
Shock:	500 ms-2, 6 ms, BS EN 60068-2-27:1993.				
Weight:	0.16 kg (for 300 mm version).				

