



PRODUCT OVERVIEW

LEVEL MEASUREMENT

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Smart Capacitance Level Sensors

LC16 Series (Truck, Bus... Fuel Tank/Water tank /Underground tank...)

PROFILES

LC16 capacitance liquid-level sensor is the customized sensor meter for precise measuring of the liquid level of automobile oil tanks, sealed tankers, trucks fuel tank, locomotives tanks and oil depots, etc.

The whole sensor is free of any mobile or elastic part and is featured with the good impact resistance, convenient installation, high reliability, high precision, and stable performance. LC16 supports local renew calibrate zero and span by two calibration wires, It can not only be installed on various occasions requiring precise level measuring of gasoline, diesel, water and hydraulic oil, etc, but also be Application for measuring of various non-conductive liquids..

In addition, it can be customized to use for conductive medium measuring on occasions with quite poor conditions, quite serious electromagnetic interference, or dramatic stirring. Sensor support client's local calibration zero and span, so that sensor can use very easy for different mediums and with a very high precision reading data.



CHARACTERISTICS:

- ☆ Accuracy: $\leq \pm 0.5\% \text{F.S.}$
- ☆ High stability and reliability
- ☆ Precise linear and temperature compensation
- ☆ Support local ZERO and SPAN calibration
- ☆ Adjustable damp output time
- ☆ Strong interference resistance
- ☆ Strong shock resistance
- ☆ Surge, over-current and polarity resistant design
- ☆ Applicable for various liquids

Applications:

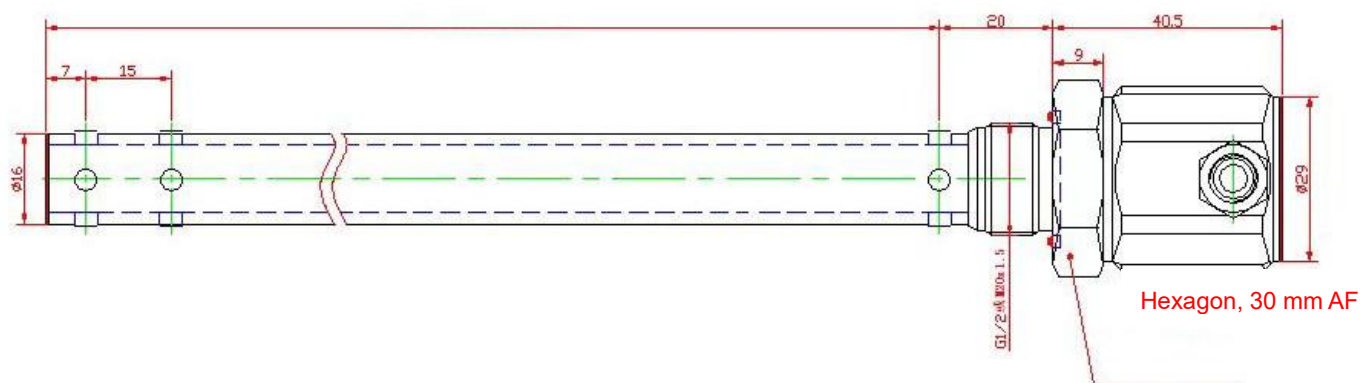
- ★ Diesel Tank Level Measurement
- ★ Liquid level measurement
- ★ Gasoline level measurement
- ★ Underground fuel tank level measurement
- ★ Industry Process Level Measurement
- ★ Auto, Truck fuel tank level measurement
- ★ Rooter, railway engine, tank oil & fuel level measurement
- ★ Sealed tank liquid level measurement
- ★ And so on

SPECIFICATIONS

Model Parameter	LC16 Series		
Pressure Range	0-100 mm...3000 mm optional		
Overload	Standard atmosphere pressure or -1 Bar to 10 Bar by customized		
Resolution	0.1mm by customized; 1 mm (RS485)		
Accuracy	$\leq \pm 1.0\%F.S$ (Typical); $\leq \pm 0.5\%F.S$ (by customized)		
Electronic Wire	3 wires type but with another two wires for calibration	3 wires type but with another two wires for calibration	4 Wires
Output	4-20 mA	0-5V	RS485
Power Supply	11-33 V DC	12 V DC or 11-33 V DC	11-33 V DC
Bottom Blind Zone	10mm(Standard)		
Stability	Standard: 0.1%F.S/year, Max: 0.15%F.S/year		
Probe Materials	304 stainless steel with PTFE/brass		
Medium working Temp.	-30 °C to +80 °C Standard , -40°C to +200°C by customized.		
Ambient Temp Span	-40 °C to +60 °C		
Storage Temp.	-40 °C to +85 °C		
Zero Temp. Drift	0.2% F.S/10 °C		
Electronic connection	Fixed cable by stainless steel cap, IP67		
Process Connection	G1/2" male, M20*1.5 male, Flanges 2.5" ... (by customized)		
Response Time	First time starting time $\approx$ 2s; working status $\leq$ 200 ms		
Medium Compatible	Diesel, gasoline; water and other liquid is by customized		
EMC Standard	EN 61326-1:2013; EN 61326-2-3:2013; EN 61000-6-2:2005; EN61000-6-4:2007+A1		
Certificate	CE Certificate		

DIMENSION AND DRAWING

Unit, mm



The dimensions are for reference only. They are subject to the actual product.

ELECTRONIC CONNECTIONS

Current	Red	Vcc+
	Green	Signal+
	Black	GND
	Gray	Full range calibrate
	White	Zero Point calibrate
	Yellow	Shield
Voltage	Red	Vcc+
	Black	GND
	Green	Signal+
	Gray	Full range calibrate
	White	Zero Point calibrate
	Yellow	Shield
Rs485 RTU Modbus	Red	Vcc+
	Black	0Vcc-
	Green	RS485A
	White	RS485B
	Yellow	Shield

PART NUMBER CODE FOR PRESSURE RANGE

001	0-100mm	016	0-1600mm
002	0-200mm	017	0-1700mm
003	0-300mm	018	0-1800mm
004	0-400mm	019	0-1900mm
005	0-500mm	020	0-2000mm
006	0-600mm	021	0-2100mm
007	0-700mm	022	0-2200mm
008	0-800mm	023	0-2300mm
009	0-900mm	024	0-2400mm
010	0-1000mm	025	0-2500mm
011	0-1100mm	026	0-2600mm
012	0-1200mm	027	0-2700mm
013	0-1300mm	028	0-2800mm
014	0-1400mm	029	0-2900mm
015	0-1500mm	030	0-3000mm

ORDER INFORMATION

L16	E9	8	007	3	0	B	G	0
SELECTION								
Output	E6=0-5 V(3 wires) E11=RS485 Modbus RTU (4 wires) E9=4-20 mA(3 wires)							
Process	8=M20x1.5 male							
Connection	9=G1/2" male 15=2.5" flange (63.5 mm) 4 holes X=By customized							
Level Range	Refer to <i>PART NUMBER CODE TABLE FOR RESSURE RANGE</i> on previous page and select your requested range code here.							
Measuring Medium	1=Water 2=Gasoline 3=Diesel 4=By customized							
Accuracy	0=1.0%F.S 1=0.5%F.S							
Probe Diameter	B=16mm(standard type) C=12mm (by customized)							
Pressure type	G=Gauge S=Sealed A=Absolute							
Working Pressure	0=Standard Atmosphere Pressure 1=Sealed Pressure (-1Bar to 10 Bar)-Customized. 2=Special Pressure Grade -By Customized							