

PRODUCT OVERVIEW

LEVEL MEASUREMENT

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Smart Capacitance Level Sensors

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

PROFILES

LC16 smart 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 support 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

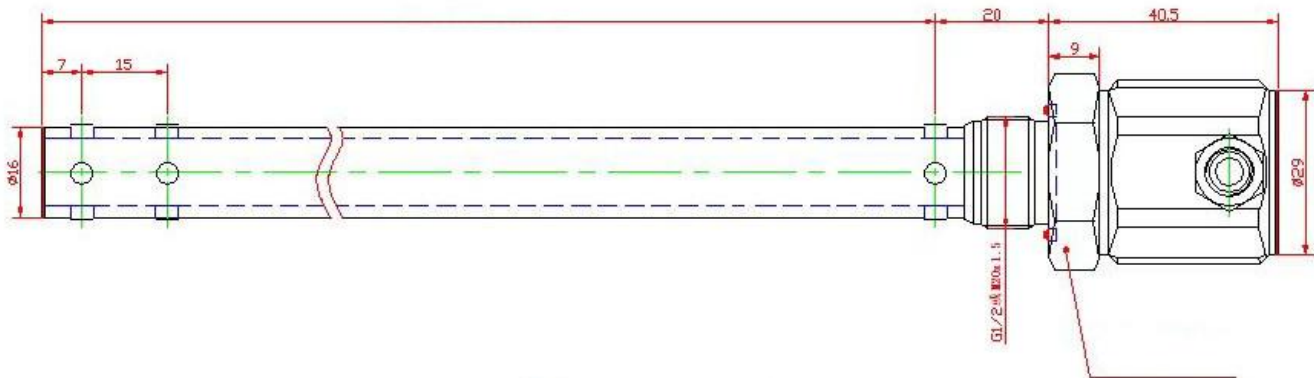
Applications:

- ★ 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	LC16 Series		
Parameter			
Pressure Range	0-100 mm...1800 mm optional		
Medium compatible	Diesel, gasoline; water and others liquid is customized		
Overload	Standard atmosphere pressure or -1 Bar to 10 Bar by customized		
Accuracy	$\leq \pm 1.0\%F.S$; $\leq \pm 0.5\%F.S$		
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
Resolution	0.01 mm by customized, 1mm (RS485)		
Blind Zone	Standard type is 10 or 15 mm, Min blind is 7 mm by customized		
Stability	Standard: 0.01%F.S/3 years Max: 0.02%F.S/3years		
Medium working Temp.	-30°C to +85°C standard type, -40°C to +125°C by customized		
Ambient Temp. Span	-20°C to +65°C		
Storage Temp.	-50°C to +125°C		
Materials of probe	304/316 stainless steel and PTFE		
Zero Temperature Drift	0.005%/20°C		
Electronic connection	Fixed cable by stainless steel cap, IP67		
Process connect port	G1/2" male, M20*1.5 male, Flanges 2.5" ... (by customized)		
Response time	First time starting time $\approx 2s$; working status ≤ 200 ms		
Certificate approve	CE Certificate		
Probe Diameter	$\Phi 16$ mm (standard)		

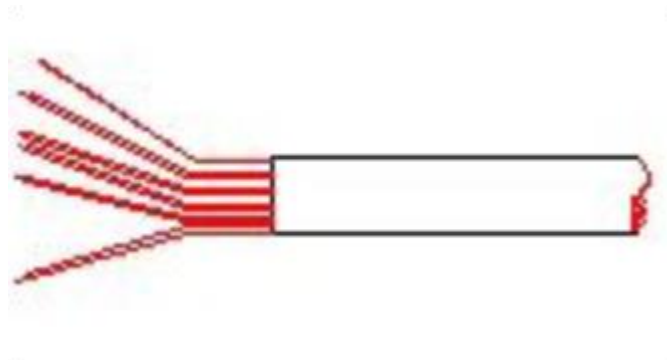
DIMENSION AND DRAWING



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

ELECTRONIC CONNECTIONS

- **Red:** Power supply positive
- **Black:** Power supply negative
- **Green:** Signal output
- **White:** Zero calibration wire (reserved)
- **Gray:** Span calibration wire (reserved)
- **Yellow:** Shield layer (covered with yellow heat-shrink tubing)



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	0-600m	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	3	1	007	3	0	D	G
SELECTION							
Output	3=4-20 mA 5=0-5 V 9=RS485						
Process Connection	1=M12*1.5 2=2.5" Flange (63.5mm) 4 hole 3=G1/2" 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	D=16 mm						
Pressure type	G=Gauge S=Sealed A=Absolute						