



Capacitive liquid level sensor 400mm range, Aluminum sensing rod, 4-20mA, G1/2, direct lead, 1m

## LLCAP204-3102

### Features

- Highly accurate continuous measurement
- Long term Stable performance
- 4-20 mA output
- G1/2 process connection

### Applications

- Petroleum Industry
- Pharmaceutical Industry
- Chemical Production
- Other oil based media
- Continuous level monitoring

### Description

The LLCAP204-3102 capacitive liquid level sensor is tailored for the precise measurement of liquid levels in storage tanks and other containment vessels used in industrial automation and process control. Examples include gasoline, alcohol, various hydraulic oils and other non-conductive liquids.

### General Specifications

Application:	Level Sensing
Sensor Type:	Capacitive
Electrical Connection:	Direct Lead
Process Connection:	G1/2
Connection Type:	1 meter 3 wire cable
Output Signal:	4-20 mA
Media Compatibility:	Petrochemicals and other non-conductive liquids
Blind Zone:	5mm from the bottom of rod

### Specifications Table

Description	Min	Typ	Max	Units
Thermal Sensitivity Shift	<u>0.05</u>			
Sensing Distance			<u>400</u>	<u>mm</u>
Accuracy		<u>0.5</u>		<u>% Full Scale</u>

### Electrical Specifications

Description	Min	Typ	Max	Units
DC Power Supply Voltage	9		30	VDC

### Material Specifications

Description	Material
Cable Material	PVC



Capacitive liquid level sensor 400mm range, Aluminum sensing rod, 4-20mA, G1/2, direct lead, 1m

## LLCAP204-3102

### Material Specifications

Description	Material
Housing Material	Stainless steel
Rod Material	Aluminum alloy

**Compliance Certifications** (see [product page](#) for current document)

### Environmental Specifications

Temperature (Operating)	-20 deg C to 85 deg C
Temperature (Storage)	-40 deg C to 105 deg C
Temperature (Probe Resistance)	-40 deg C to 85 deg C
Temperature (Zero Drift)	0.05 %FS/°C
Impact	100 g
Vibration	20 g
Ingress Protection	IP65

### Notes and warranty information

1. During installation or removal, be sure to apply the correct size wrench to the hexagonal area only.
2. Avoid pulling the cable hard to avoid damage to the internal structure of the product.
3. Apply power within the specific range and follow the wiring diagram to ensure proper operation.
4. After long-term use, and depending on the measured medium, the drainage hole may become blocked. This can adversely affect the sensor function (output sensitivity) and cleaning may be required. Apply a cleaning fluid designed to dissolve organic matter and repeat as needed. Do not probe the drainage hole as doing so may damage the internal lining and impact the function of the sensor.
5. This product is warranted against defects in materials and workmanship for a period of one year from the purchase date.

Capacitive liquid level sensor 400mm range, Aluminum sensing rod, 4-20mA, G1/2, direct lead, 1m from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/capacitive-liquid-level-sensor-400mm-range-aluminum-sensing-rod-4-20ma-g1-2-direct-lead-1m-llcap204-3102-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

# LLCAP204-3102 CAD Drawing

Capacitive liquid level sensor 400mm range, Aluminum sensing rod, 4-20mA, G1/2, direct lead, 1m

