

ULTRASONIC LEVEL TRANSMITTER AND CONTROLLER



LVCN210 Series



- ✓ Level Detection, Switch and Control Functions Up to 3 m (9.8')
- ✓ Fast and Easy Configuration Via Free Software Download and USB Adaptor
- ✓ Narrow 5.08 cm (2") Beam Width and Short 10 cm (4") Dead Band
- ✓ Four Programmable Relays
- ✓ PVDF Transducer and 6P Polycarbonate Enclosure
- ✓ Automatic Temperature Compensation For Accurate Measurement

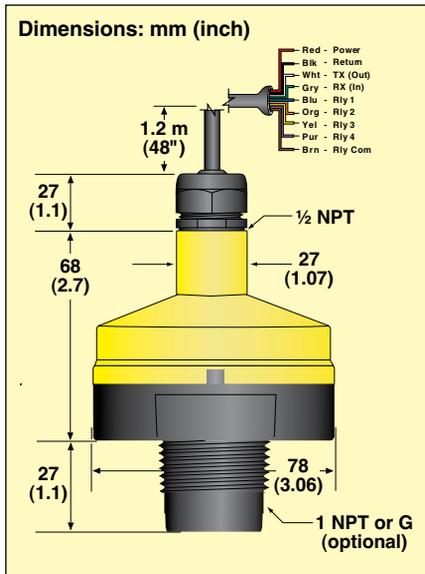
OMEGA's LVCN210 Series ultrasonic level transmitter and controller provides continuous level measurement up to 3 m (9.8') with a 4 to 20 mA signal output, and is configured via our free software download. The level sensor has 4 programmable relays with selectable hysteresis and fail-safe logic. The embedded level controller can lower cost by replacing external control hardware. This non-contact liquid level sensor is ideally suited for corrosive, sticky or dirty liquids, and is widely selected for day tank, skid, IBC, sump and process tank level applications.

SPECIFICATIONS

Range: 3 m (9.8')
Accuracy: ±0.2% of range
Resolution: 1 mm (0.039")
Dead Band: 10 cm (4")
Beam Width: 5.08 cm (2")
Configuration: Free PC Windows® USB 2.0. The level sensor is configurable via our free PC software and USB adaptor. The sensors are offered with and without USB connectors. Connectors can be used to configure many compatible level products. Download your free copy at: omega.com/ftp
Memory: Non-volatile
Supply Voltage: 24 Vdc (loop)
Consumption: 0.5 W
Loop Resistance: 400Ω max
Signal Output: 4 to 20 mA, two-wire
Signal Invert: 4 to 20 mA or 20 to 4 mA
Signal Fail-Safe: 4 mA, 20 mA, 21 mA, 22 mA or hold last
Contact Type: (4) SPST relays
Contact Rating: 60 VA, 1A max
Contact Fail-Safe: Power loss; Hold last
Echo Loss: Open, close or hold last



LVCN210.



Hysteresis: Selectable
Process Temp: -7 to 60°C (20 to 140°F)
Temp Comp: Automatic
Ambient Temp: -35 to 60°C (-31 to 140°F)
Pressure: Maximum Working Pressure = 2 bar (30 psi)
Enclosure Rating: Type 6P, encapsulated, corrosion resistant and submersible
Enclosure Material: Polycarbonate
Trans. Material: PVDF
Cable Jacket Mat: Polyurethane
Cable Type: 9-conductor, shielded
Cable Length: 1.2 m (48")
Process Mount: 1 NPT (1" G optional)
Mount Gasket: FKM
Classification: General purpose
Compliance: CE, RoHS

To Order Visit omega.com/lvcn210 for Pricing and Details

Model No.	Description
LVCN210	Level transmitter 4 to 20 mA and 4 relays, and USB connector, range 3 m (9.8')
LVCN210-B	Level transmitter 4 to 20 mA and 4 relays (requires LVCN414-USB), range 3 m (9.8')
LVM-31	Side mounting bracket 1 NPT for schedule 40
LVU800-2N40	2 NPT to 1 NPT reducer for schedule 40
LVCN414-USB	USB connector

Comes complete with mounting gasket and operator's manual.

For units with G threads add "-G" to model number, for additional cost.

Configuration software for programming available free at omega.com/ftp

Ordering Example: LVCN210, level transmitter with relays and USB connector, 1 NPT, 3 m (9.8') range.