

# LVR2 Series Continuous Level Sensors

M-4211/0605

INSTRUCTION  
SHEET

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## Specifications

Sensing Length = \_\_\_\_\_ inches

Resolution = 1Inch

\_\_\_\_\_ Output: 4 to 20 mA, 2 wire Red(+) Black(-)

Output: 4 mA with float at bottom

Output: 20 mA with float at top

\_\_\_\_\_ Output: Resistive, 220 Ω per 1 Inch of indication

\_\_\_\_\_ Output Resistive, Non Linear per application

Temperature range: -40°C to 85°C, -40°C to 105°C with Resistive Output

Mounting: \_\_\_\_\_

\_\_\_\_\_ Output: 1 to 5 VDC, 3 wire

Red(+) Black(-) White (output)

Output: 1 V with float at bottom

Output: 5 V with float at top

## General Information

1. Continuous Level Sensors should be installed rigidly so the float is free to move as the liquid level changes.
2. Continuous Level Sensors should be mounted in a tank area free of severe turbulence or protected from such turbulence by appropriate and adequate slosh shields.
3. Continuous Level Sensors stems should be vertical for best results, but satisfactory operation is possible in most liquids with the stem at up to a 30° angle from vertical.
4. Care should be taken that Continuous Level Sensors are always operated within electrical ratings.

## Cautions

1. The pressure, temperature and electrical limitations shown for the specified level sensor must not be exceeded.
2. The pressures and temperatures must take into consideration possible surges in the temperature and pressure of the system.
3. The liquids used must be compatible with the materials of construction. Specifications of materials will be given upon request.
4. Life expectancy of the sensor varies with applications.
5. Ambient temperature changes can affect sensor set points, since specific gravities of liquids vary with temperature. Consult factory for assistance.
6. Level sensors have been designed to be shock and vibration resistant. For maximum life, both should be minimized. Consult factory for assistance.
7. Excessive contaminants in fluid may inhibit float operation and occasional wipe down may be necessary.
8. Physical damage to product may render product unserviceable.
9. Installation in a vessel made from magnetic materials may affect operation.



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**WARNING:** These products are not designed for use in, and should not be used for, human applications.



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OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

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1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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