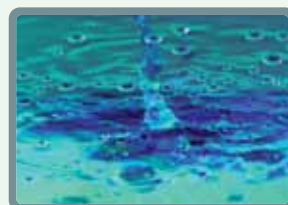


LVH 500

Orion Magicap Level Transmitter

APPLICATIONS

LVH500 is a high-performance level transmitter for continuous level and limit level switch in critical process conditions. LVH 500 capacitive level probes can be used for level indication, continuous level measurement, level detection and switching on solids or liquids. LVH500's advanced electronics provide three-step, push-button calibration, and local display for easy on-site set-up. The new mechanical probe design coupled with a high performance transmitter gives better performance in powders and bulk materials.



SELECTION FOR APPLICATION AREA

It is especially ideal for vessels containing dedicated products either for storage or processing.

- Storage of solids or liquids
- Processing and manufacturing of products
- Protection of overfilling
- Silo's and Hoppers

In construction industry for leveling of, gypsum, lime, fine sand, dolomite, calcite, cement, stone, coal, pulverized coal powder etc. In food industry for leveling of flour, bran, seed, salt, sugar etc.

FUNCTIONS

The level change is monitored as a direct result of the variation in emitted RF power around the probe, dependent upon the degree of immersion. LV500 is unaffected by pressure and vacuum along with highly resistant probe material and rugged designs it makes it a great technology for aggressive products

- 4-20mA output
- Push button calibration
- High resolution



TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

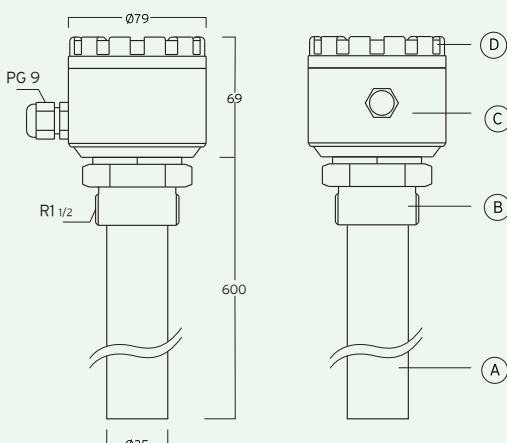
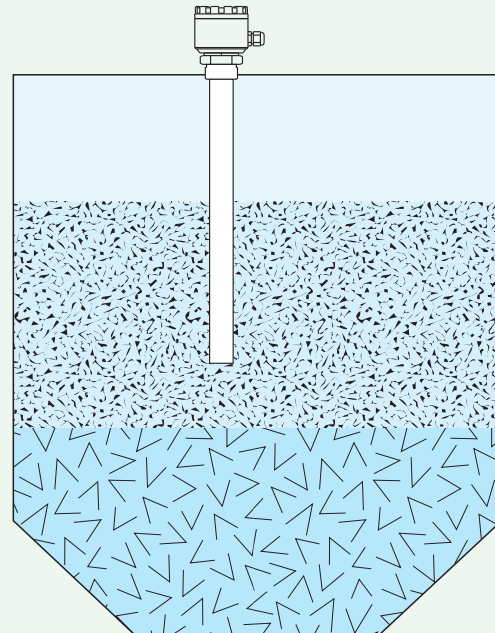
Connection Terminal	: Max. 2 mm ² (AWG 14) sectioned cable input.
Fitting	: PG9
Supply Voltage	: 24V AC / DC +- 30% max. 2W
Relay Output	: 1 changeover contact AC max. 250V, 2A, 500VA resistive load
Signal Delay	: Max. 1.0s
Analog Output	: 4-20mA optically isolated (2Kv) 10 Bit
Sample Rate	: 1 to 9 sn (user configurable)
Protection Class	: IP68 (cable cover fully closed and by using a fitting 4-8mm thick and full I-bored)

MECHANICAL SPECIFICATIONS

Casing	: Aluminum machining process
Probe	: IP68
Screw Material	: Black anodized steel
Screw Size	: R 1 1/2" Whitworth screw thread DIN259
Antenna Probe	: DELRIN (+100°C stable) standard or TEFLON, PVDF option
Housing	: Electrostatic powder paint RAL6014 over noncorrosive alodine coating
Weight	: 1.2 kg

WORKING CONDITIONS

Ambient Temperature	: -20°C ~ +60°C (ambient)
Operating Temperature	: -20°C ~ +100°C (material)
Min. Sensing Density	: 100 g/l
Probe Frequency	: 1.5 MHz
Max. Particle Size	: 18 mm (with out using a guard)
Max. Mechanical Load	: 250 N from side
Max. Tensile Force	: 0.5 kN
Max. Silo Internal Pressure	: 10 bar
Max. Operating vibration	: 5-500Hz RMS random vibration 3G IEC-60068-2-64



- A Probe (Antenna)
- B Thread
- C Housing
- D Cover

ORDERING CODES

L VH500-0500-DELRIN-24VDC
 L VH500-0500-TEFLON-24VDC
 L VH500-0500-PVDF-24VDC

COMPLIANCE TO APPLICABLE NORMS

CE COMPLIANCE

- EN 61000-6-4:2001 Generic emission standard. Industrial environments.
 EN 61000-6-2:2005 Generic immunity standard. Industrial environments.
 EN 61010-1:2001 Safety requirements for electrical equipment for measurement, control, and laboratory use.