LOREME

Multi-level probe for conductive liquids.

fully static design

Up to 5 levels (adjustable length electrodes) Maximum pressure 6 bar Peak temperature 150 ° C (HT version) Waterproof IP66, cable output or connection head 316L Stainless Steel Electrodes wrapped with Teflon

Application

Level control or regulation For tank or duct Monitoring the presence or absence of fluid (tank overflow , leak detection , pump control,)



Resistive level sensor based on the change in electrical resistance caused by the presence of fluid between two electrodes. This resistance is transformed into an digital signal through the relay level.

Level sensor description (SNL)

The sensor operates according to the principle of conductivity between a common electrode and one or more level electrodes. The presence of fluid is detected by a resistance change between electrodes.

Each sensor is composed of three parts:

- The measuring electrodes: from 1 to 5 according to model, (SS316L, Teflon coated) they will be cut to the desired height. Supplied in standard length of 1000 mm (Maximum length. 6000 mm) Sliding insulating separators are disposed every 300mm for holding the electrodes.

- The fitting assembly 3/4" also acting as an insulator between the electrodes themselves and the tank (Teflon material)

- The connection head Type DanV IP66 with cable gland output, or output cable (length on request)

Technical specifications : (SNL probe)

Maximum temperature : electrodes, 180° C , connection head, 100° C Maximum pressure : 6 bar @ 20° C (1 bar @ 100° C) Process connection : 3/4 " (optional mounting bracket) environment : For any conductive liquid electrode holder: Teflon materials : Electrodes: 316L stainless steel (Teflon sheath to prevent conductive bridges) Electrical connection: up to 30 meters

Maintenance:

For proper operation of the probe, it is advisable to occasionally check the condition of the electrodes. (no deposits)

The probe itself require very little maintenance, during assembly, it is necessary to check the tightness of the cable gland and the head to prevent moisture penetration.

In case of malfunction, check the electrical continuity between the end of the electrodes and the terminal block.

Version and order code :

(resistive level probe)

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SNLxxxx-v xxxx : length of the electrodes en mm (6000 mm maxi) (default length 1000 mm) number of level electrodes (maxi 5) Adjustable length у:

option /HT: high temperature 130 ° C no head Version

Level control relay description (RNL35L)

Input :

- Resistance 0.....100 kohms, resolution +/- 1Kohms

Front panel :

- Led display 7 segments 3 digits (1100 pts) green LED, digits high : 10 mm
- Showing resistance of each electrode.
- 2 green LED indicating the level reached and relay status
- 2 push buttons under the front panel allowing device configuration

Relays

 2 configurable relay (threshold, hysteresis and delay) changeover output contacts 10A potential free usable alarm, pump control,

Performance / Environment

- Long-term stability 0.1 %/an.
- Operating temperature up to 70 °C
- Excellent EMC performance.
- Resistant, protected against shock and vibration

Assembly and connection

- Mounting on DIN rail according to EN 50022
- Connection on spring terminals max section : 1 mm²
- Galvanic isolation: power / input / relay
- IP20 protection and electronics Tropicalization.

Version and order code: (Level control relay)

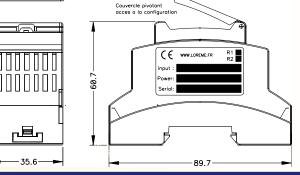
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RNL35L/R1: - 1 electromechanical relay 10A (one level control) RNL35L/R2: - 2 electromechanical relay 10A (two level control)

it is possible to use several relay for probes over 2 levels



TECHNICAL SPECIFICATIONS WWW.LOREME.FR Specifications (level relay) : RNL35L Specifications (resistive level probe) : SNL ENTREE TYPE Range Precision **Measuring electrodes** (2 inputs) Résistance 1kohms ...100Kohms +/- 1% of range Maximum number of electrodes 5 + common RELAYS maximum length 6 meters Isolated changeover contact 1500 Vac stainless steel 316L material covering Switching capacity 10 A / 250 V Teflon sheath operating temperature response time 100mS 150°C Repeatability ± 1% maximum pressure 6 bars POWER SUPPLY 230 Vac 50-60 Hz +/- 15 % , other on request consumption < 1.5 VA **Connection head** Version standard: **RECOMMENDED OPERATING CONDITIONS** cast aluminum with epoxy coating, protection IP66 -20 à 65 °C Operating temperature: cable entry gland -40 à +85 °C Storage temperature: operating temperature: -20....95 °C (105°C peak) drift: < 0.02 % / °C Teflon fitting 3/4 ' Hygrometry: 85 % not condensed optional stainless steel bracket mounting Protection: (according : EN 60 529) IP 20 150 g weight: High temperature version (/ HT): without connection head , cable output (length on request) operating temperature: -20....110 °C (130°C peak) Electromagnetic compatibility Generic standards: NFEN50081-2 /NFEN50082-2 F EN55011 group 1 / classe A meet EN61000-4-2 В **EN61000-4-3** < +/- 5 % no influence А EN61000-4-4 EN61000-4-6 < +/- 5 % < +/- 5 % В Α EN61000-4-5 < +/- 5 % B EN61000-4-8 no influence A EN61000-4-11 В DBT 2006/95/CE < +/- 5 % WIRING AND DIMENSIONS: Type: SNL-HT Type: SNL Raccordement / Wiring Equerre de Fixation Selon PA220408 Matiere : Inox 304 ep. 3 mm Ē Noir Black Rouge Red Bleu Blue nm-00 Tige 2 eau Bas 1 rouge) Tige 1 Commun Tige foyen bleu) Niveau mandro III 88 Έ n T NI 351 Config Level, PWR PWR 00 000



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