Conductive Sensors Level Probes Types CLH





Product Description

A compact and flexible level probe for measuring the level of conductive liquids, i.e overfill, dry run protection or pump control.

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A total measurements system consist of a multiple probe-

head, 1-5 electrodes and a control unit.

The electrode length can be freely defined be means of electrode extention units - with or without isolation.

• Flexible conductive level probe

- 1 to 5 electrodes
- User defined electrode length
- Isolated or unisolated electrodes
- 1 1/2" pipe thread according to ISO 228/1-G1¹/₂A

CLH 5

CE

Туре

Ordering Key

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Head mounting —— Number of electrodes

Type Selection - Probe

Pipe thread	Housing	Ordering no.	Ordering no.
	Material	for 3 electrodes	for 5 electrodes
1 1/2"	PP	CLH3	CLH5

Type Selection - Electrode

Туре	Ordering no. 1000 mm Basic Thread in one end	Ordering no. 2000 mm Extended	Ordering no. Extension 1000 mm Thread in both ends	
Electrode without isolation Electrode with isolation, Kynar (PVDF) Electrode with isolation, Polyolefine (FR)	CLE1 CLE1K CLE1P	CLE2 CLE2K CLE2P	CLE1X CLE1KX CLE1PX	
Description	1000 mm Basic electrode for no further extension	1000 mm Basic electrode for extension 1000 mm extension electrode 1 extension joint 1 isolation tube (not CLE2)	1000 mm extension electrode 1 extension joint 1 isolation tube (not CLE1X)	

Specifications

Probe Head Material No of electrodes	CLH3	PP (Polypropylen) 3	Diameter Isolation	CLE.K. CLE.P.	Ø 4 mm Kynar (PVDF) Polyolefine (FR)
Electrode connection Tightening torque Cable connection	CLH5 on	5 M4 2.7 Nm by hand -K & -P Screw terminals	Environment Overvoltage category Degree of protection Housing		III (IEC 60664) IP 65
Electrodes Material		Stainless steel	Electrode connec Pollution degree		IP 68 2(IEC 60664/60664A, 60947-1)
Length	CLE1 CLE2	AISI316/DIN1.4401 1000 mm 2000 mm	Operating tempera Storage temperatu Pressure		-20° to +90°C (-4° to +194°F) -40° to +100°C (-40° to +212°F) 5 bar at 60°C

Specifications are subject to change without notice (08.04.2011)

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Specifications (cont.)

Weight Probe Head Electrodes

CE marking

260 g
107 g
IEC 529

Mode of Operation

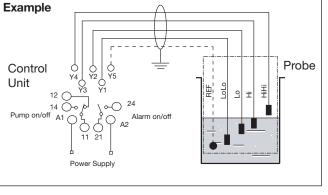
Functionality - example The diagram shows the level control system connected as max. and min control, i.e. registration of 2 levels + 2 alarm levels. The relays react to the low alternating current created when the electrodes is in contact with the liquid.

The reference (Ref) must be connected to the container or if the container are made of a nonconductive material, to an additional electrode. In the diagram this electrode is shown by the dotted line.

Electrodes

Cut or extend the electrodes

Dimensions



to the desirable length. If using extended electrodes, place the enclosed isolation tube over the extension joint, and heat it with a heat gun. Mount the electrodes in the probehead by means of the M4 screw inserts. Take care

Accessories

Extension joint Ø4 60 mm Kynar for isolation 60 mm Polyolefine for isolation M12 Cable Gland M20 Cable Gland

Delivery Contents

Probe Head M20 Cable Gland M12 Blind flange Installation Instruction not to damage the isolation material of the isolated electrodes.

Connection cable

VD

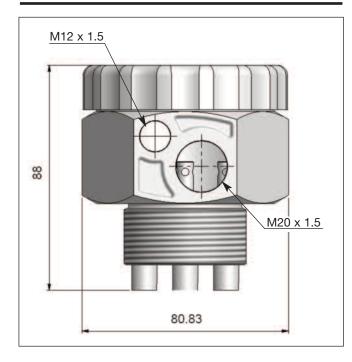
VDK

VDP

M12 Cable Gland

M20 Cable Gland

2, 3, 4 or 5 conductor PVC cable, normally screened. Cable length: max. 100 m. The resistance between the cores and the ground must be at last 200k. In normal cases it is recommended to use screened cable between probe and controller, e.g. where the cable is placed in parallel to the load cables (mains). The screen has to be connected to Y5 (reference).





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VD CLE2P CLE1P CLE1 CLH3 CLE1PX CLE1X CLE2 CLE1KX CLE2K CLE1K CLH5