

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Conductive Sensors Level Probes Types CLH





- 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

((

Product Description

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

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.

Ordering Key

CLH 5

Type Selection - Probe

Pipe thread Housing Material		Ordering no. for 3 electrodes	Ordering no. 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 CLE1X CLE1KX CLE1PX	
Electrode without isolation Electrode with isolation, Kynar (PVDF) Electrode with isolation, Polyolefine (FR)	CLE1 CLE1K CLE1P	CLE2 CLE2K CLE2P		
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)	Diameter Isolation	CLE.K. CLE.P.	Ø 4 mm Kynar (PVDF) Polyolefine (FR)
Electrode connectio Tightening torque Cable connection	CLH5 n	5 M4 2.7 Nm by hand -K & -P Screw terminals	Environment Overvoltage catego Degree of protection Housing	•	III (IEC 60664) IP 65
Electrodes			Electrode connect	ions	IP 68
Material		Stainless steel AISI316/DIN1.4401	Pollution degree Operating temperat	ure	2(IEC 60664/60664A, 60947-1) -20° to +90°C (-4° to +194°F)
Length	CLE1 CLE2	1000 mm 2000 mm	Storage temperature Pressure		-40° to +100°C (-40° to +212°F) 5 bar at 60°C



Specifications (cont.)

Weight Probe Head Electrodes	260 g 107 g
CE marking	IEC 529

Mode of Operation

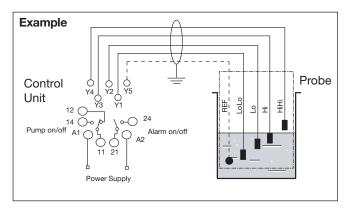
Functionality - example

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

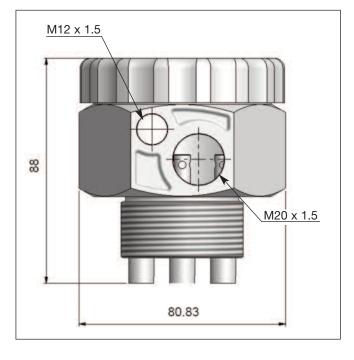


to the desirable length. If using extended electrodes, place the enclosed isolation tube over the extension joint, and heat it with a heat gun. Mount the electrodes in the probehead by means of the M4 screw inserts. Take care not to damage the isolation material of the isolated electrodes.

Connection cable

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).

Dimensions



Accessories

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

VD VDK VDP M12 Cable Gland M20 Cable Gland

Delivery Contents

Probe Head M20 Cable Gland M12 Blind flange Installation Instruction