

MODEL CE

CABLE SUSPENDED ELECTRODE LEVEL SENSOR



Features

- Easy to install for the large tanks or vessels
- 20 meter Max. cable length
- Switch points easily adjusted in field
- Up to 6 detection points

General Description

The CE is designed for use in large tanks or vessel where the FE series can not be used due to the limitation of electrode length. Used in conjunction with one or more RE7000 relays, the CE can reliably detect up to 6 separate levels in tanks up to 20 meter deep. The PVC body, the PVC cable, and selectable electrodes are compatible with a wide range of liquids. The material of electrode is selected from 316SS, NW0001,0665, NW0276, and Titanium for the chemical compatibility. If necessary, alternative SCM cable is available.

Electrode Selection

Material	Model	
	Single Point	Multiple Point
316SS	CE-5	CE55
NW0001,0665*1	CE-6	CE66
NW0276*2	CE-7	CE77
Titanium	CE-8	CE88

*1 NW0001,0665 is equivalent with HastelloyB®

*2 NW0276 is equivalent with HastelloyC®

Application

The CE series can be used in any suitable conductive liquids. Applications involve both alarm point detection and pump valve control. Since the CE series contain no moving parts, it is very reliable and can be used in tanks where mixers or other moving equipment would damage ordinary float sensor or other level detector. The CE series consist of cable, body, and electrode, and electrode is electrically insulated by the cable and body. Therefore, CE can be installed at the slop wall and through the pipe.

Operational Description

When the tips of electrode are touched by the conductive liquids, the current is passed between electrodes. When the liquid level is decreased from the point of electrodes, the current is not passed between electrodes. The relay is opened or closed by the block or unblock of current.

Specifications

Model	CE series	
Drawing		
Operating Temperature	-20 to 50°C	
Maximum Pressure	200 kPa	
Cable Length	6 meter (Max. 20 meter)	
Material	Cable	6.5, PVC
	Body	PVC
	Electrode	316SS, NW00010665 (Hastelloy B* ¹ equivalent), NW0276 (Hastelloy C* ¹ equivalent), Titanium
	Housing	ABS
	Flange	PVC
	Weight	PVC
	Rope	PE
Mounting	JIS10K100A (4 holes)	
Cable Entry	G3/4	
Protection	IP45* ²	
Maximum Detection Points	6	

*1 Hastelloy is registered name of manufacturer.

*2 IP65 is optionally available.

Specifications

Model	RE7000
Drawing	
Supply Power	90 to 132V/180 to 264V AC, 50/60Hz
Power Consumption	Approx. 1.5VA Max.
Relay Contact	1 SPDT, 240V 5A AC, 30V 5A DC (Resistive)
Power Source	8V 5mA AC
Operating Resistance	4 kΩ or less
Release Resistance	15 kΩ or more
Operating Temperature	0 to 50°C
Operating Humidity	85%RH Max.
Indication	Green LED for power states Red LED for relay states
Separation Distance	1km Max. Use CVV-S 0.75mm ² cable
Mounting	11-pin base, plug-in type

Base is optional and must be ordered separately.