

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, Hastelloy B and C, and Titanium for the chemical compatibility. If necessary, alternative Hypalon cable is available.

Electrode Selections

Material	Model	
	Single Point	Multiple Point
316SS	CE-5	CE55
Hastelloy B	CE-6	CE66
Hastelloy C	CE-7	CE77
Titanium	CE-8	CE88

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

The system consists of cable suspended electrode sensor and relay unit. The relay unit provides the voltage and current required (8V, 5mA AC Max.) for sensing as well as suitable relay output.

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°C to 50°C	
Maximum Pressure	200kPa / 2bar	
Cable Length	6 meter (Max. 20 meter)	
Material	Cable	φ6.5, PVC
	Body	PVC
	Electrode	316SS, Hastelloy B, Hastelloy C, Titanium
	Housing	ABS
	Flange	PVC
	Weight	PVC
	Rope	PE
Mounting	JIS10K100A (4 hole)	
Cable Entry	JIS F 20a (G3/4)	
Protection	IP45*	
Maximum Detection Points	6	

*IP65 is optionally available.