SRC400 Capacitive level gauge

nler

MAIN FEATURES

- Adaptable: It can work reliably under high temperature, high pressure, strong corrosion and dusty environment.
- No maintenance required: Due to the simple structure of the sensor, no maintenance is required once it has been put into operation.
- Wide range of applications: liquid and solid materials can be used.
- Complete protection: The transmitter is designed for explosion-proof and intrinsically safe circuits with a maximum output of less than 30 mA.
- Standard output: The transmitter adopts 4-20mA/DC standard current signal output, twowire system operation, with load and strong anti-interference ability.

OVERVIEW

This product is a new type of capacitive continuous level meter. Due to the use of radio frequency technology and microcomputer technology, the traditional capacitive level gauge solves the problem of large temperature drift, difficult calibration and fear of adhesion, and can be widely applied to continuous measurement of various liquid solid level and interface. Especially in the environment of high temperature, strong corrosion and dust, it is unmatched by other types of level gauges. working principle:

When the liquid level sensing electrode is installed in the container, a capacitor is formed. The metal rod (measuring electrode) of the electrode serves as a plate of the capacitor. The container: (Note: If the wall of the container is insulating material, it should extend into the other electrode., referred to as the reference electrode) as the other plate of the capacitor, when the level rises, the air or other gas normally enclosed between the two plates has a different dielectric constant, when measured

The material changes the dielectric capacity due to the change in dielectric properties between the plates. The RF capacitance level meter detects this change in capacitance through the RF circuit and converts it into a linear current output. The relative dielectric constant of the general process medium should be above 1.5.

ITEMS	PARAMETER				
Sensor type	coaxial rod type, parallel rod type, coaxial cable type, parallel cable type				
Sensor length	the pole type is up to 2 meters and the cable length is up to 20 meters.				
Sensor material	ICrl8Ni9Ti or 316 stainless steel, Teflon				
Medium temperature	-20 ° C ~240 ° C				
Applicable pressure	-0. 1MPa~32MPa				
Measuring range	0-0. 2-20m				
Power supply	12-36V/DC				
Adjustment range	≥30%				
Ambient temperature	-20~7 °C				
Measurement accuracy	±0.5% FS				
Measuring medium	non-crystalline conductive liquid such as acid, alkali or water having a conductivity of not less than 10-3 s/m				
Maximum load	≤500Ω				
Electrical interface	1/2NPT				
Shell material	die-cast aluminum				
Shell spraying	the main part is milky white polyurethane, the end cover is dark green				
Protection level	IP65				
Explosion-proof grade	ExdIIBT6				

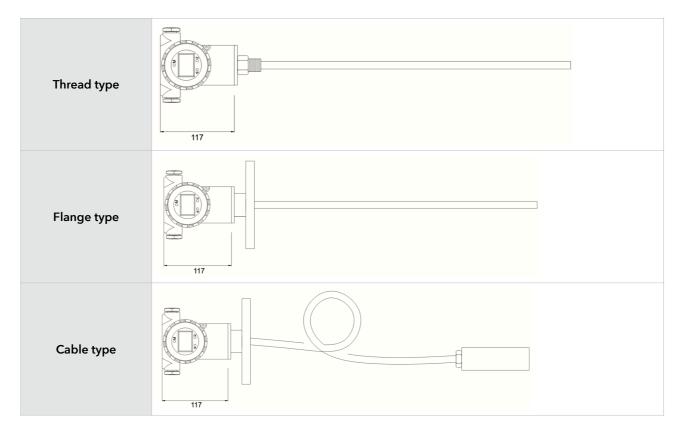
SPECIFICATION

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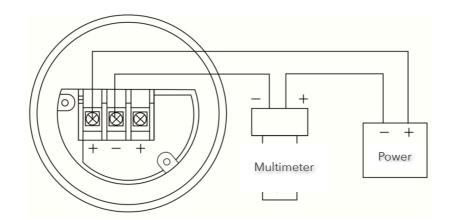




OUTLINE CONSTRUCTION



WRING CONNECTION



APPLICATION





ORDER GUIDE

SRC400	Capacitiv	Capacitive level gauge								
	CODE type									
	А	Ordinary type High temperature type Hygienic type Anticorrosive type								
	В									
	с									
	D									
		CODE	CODE Insertion depth 1 1000m (standard) 2 Pole type extension 1000-3000 optional							
		1								
		2								
		3 Cable type extended split 1-20000m optional								
			CODE Voltage							
			D	D 24V DC ±10%						
		CODE Material								
				1304(standard)23163Anti-corrosion type, surface sprayed with PTFE						
				CODE Process connection G G1 "thread (standard) T 1 "NPT thread						
					F Flange installation (flange specification and standard shall be indicated)					
				C Other customization						
						CODE	Other parameters			
						Α	Normal tempeature_° C			
					В	Normal pressure_Kpa				
						с	Protection level IP66			
					D	Flameproof level ExdIICT6				
						E	Maximum temperature _° C			
						F	Maximum pressure Kpa or Mpa			
						G	Other requirements			
SRC400	А	1	D	1	G	AB	Order example			