

[See page 5 for selection details](#)



SD70

Radio Frequency Admittance Level Meter

Principle of operation

The radio frequency admittance level gauge consists of a sensor and a control instrument, and the sensor can be installed on the top of the silo by using a rod, coaxial or cable probe. The pulse card in the sensor can convert the change of material level into pulse signal and send it to the control instrument, which is converted into engineering quantity after operation and display, thus realizing the continuous measurement of material level.

Product description

It is suitable for measuring the position height of liquid and solid. It provides the contact output of DPDT and is not affected by material adhesion and probe.

Using RF signal with proper frequency, capacitance, resistance and inductance are detected at the same time, which eliminates errors such as virtual object level that cannot be avoided by capacitive technology, and there are many different forms. It can be applied to the measurement of high-temperature vibration, stirring or narrow space.

Functional performance

Strong versatility: widely used in various occasions, such as fly ash, particles, powder, liquid, viscous, conductive and non-conductive materials;

Anti-adhesion: the unique circuit design can make the measuring circuit ignore the accumulated materials on the probe and correct them automatically;

Separated probe: the probe and the controller can be separated, and there is no cable connection, which is convenient to install and dismantle and does not affect the field work;

Powerful function: the output contact has large capacity, and there is a status indicator lamp to show the working status, and the delay of 0~30 seconds can eliminate the influence of material fluctuation;

Power failure protection: normally open or normally closed (can be switched on site);

Product application

Radio frequency admittance level switch is an avant-garde alternative product of international level controller in the new century.

Suitable for measuring the position height of liquid and solid.

Provide DPDT contact output.

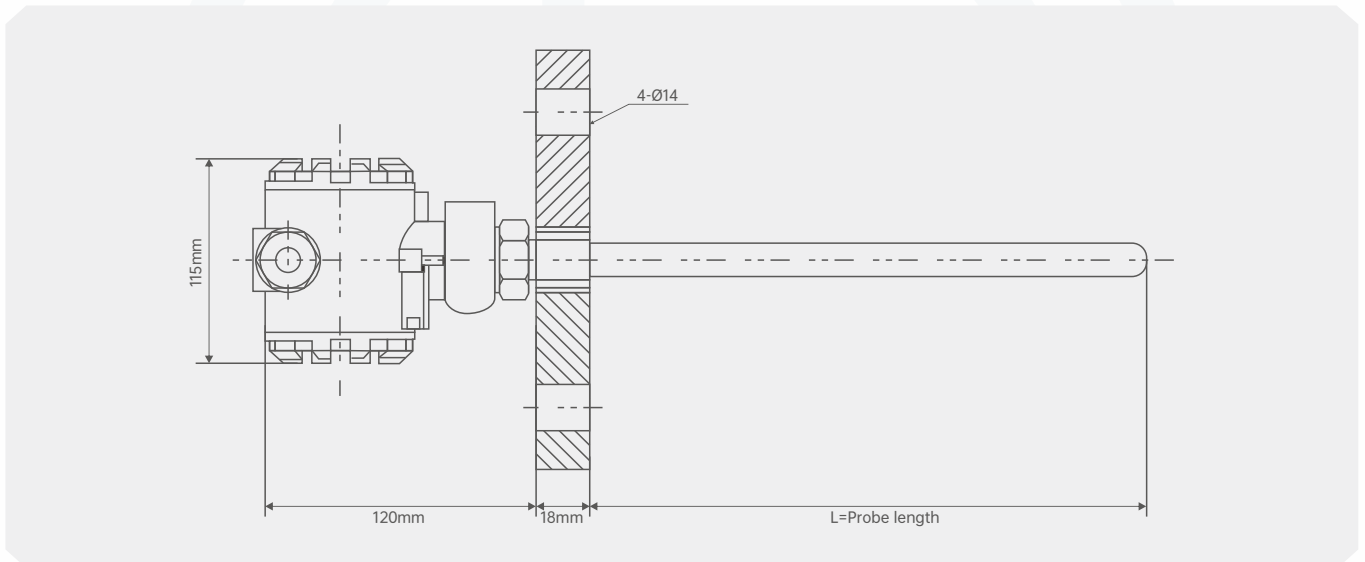
And is not affected by material adhesion and probe.



Technical parameter

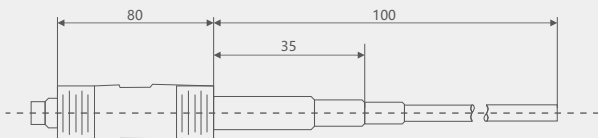
Specifications	
Power Supply	220VAC/110VAC/24VAC/24VDC
Power	3W
Relay output	5A/240VAC, Two groups of normally open and normally closed contacts
Ambient temperature	-40~80°C
Delay time	0~30s adjustable
sensitivity	0.3pf~750pf
Probe mounting thread	1"NPT Or flange installation (special specifications can be customized)
Probe material	SUS304/SUS316/Teflon
Probe working temperature	-180~250°C
The protection grades	IP66,IP67 Optional
Power-off protection	Adopt high-low mode, which can be adjusted on site

Size mm

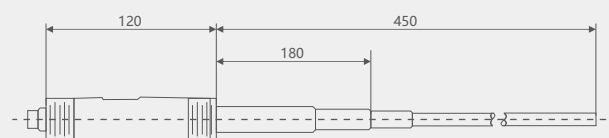


Probe type

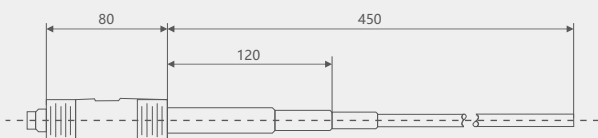
Ultra-short probe L10



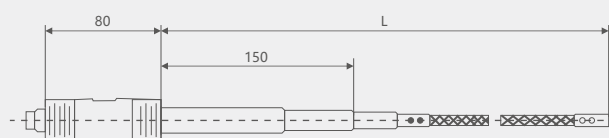
High temperature probe L30



Standard probe L20 type

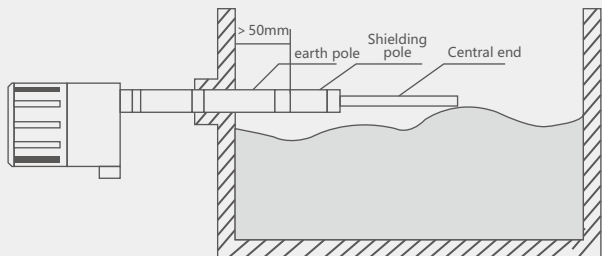


Flexible probe L40

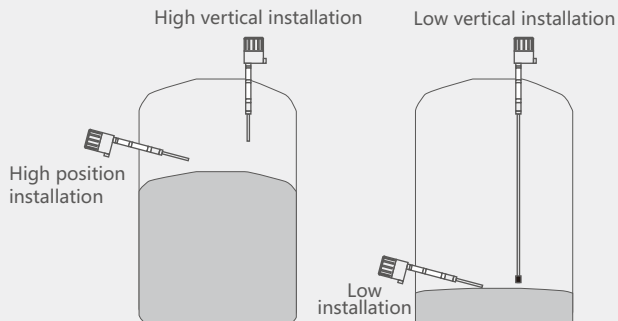


Installation instructions

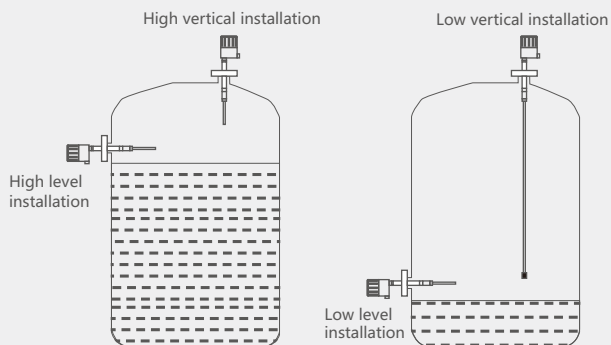
Note: the shielding end of the sensing element must extend into the tank wall at least 50 mm.



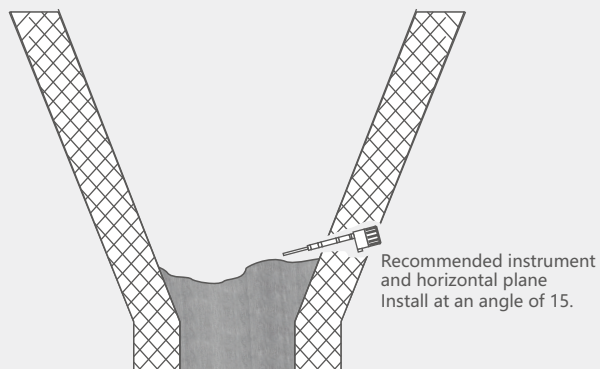
Schematic diagram of socket thread installation



Schematic diagram of flange installation



Schematic diagram of ash hopper installation



SD70-Selection and composition

Selection example **SD70** **B** **H** **Q** **X** **J** **B** **3.15** **W** **A** **G** **U** **N**

1 2 3 4 5 6 7 8 9 10 11 12

1.Instrument type	A	Adjustable key type	
	B	Intelligent digital display type	
2.measuring range mm	G	100	
	H	200	
	I	300	
	J	400	
	K	500	
	L	600	
	T ()	Other lengths	
3.working power supply	N	110V	
	O	220V	
	Q	24VDC	
	T ()	Other voltage types	
4.Output signal	X	normally open	
	U	normal close	
	V	4-20mA+ switching point signal	
	W	4~20mA	
	T ()	Other output contact signals	
5.material quality	J	304SS	
	K	316L	
	L	PTFE	
	N	PFA	
	M	Sintered tetrafluoroethylene	
	T ()	Other material types	
6.Installation method	A	Side mounted	
	B	Top mounted	
7.Medium density	D ()	(Note density)	
8.Threaded connection installation(Not selected for flange connections)	G	G1/2	
	I	G1	
	J	1/2"NPT	
	K	3/4"NPT	
	L	1"NPT	
	M	M20*1.5	
	N	M27*2	
	T ()	Other thread specifications	
8.Installation of flange connection(Not selected for threaded connections)	M	DN25	
	U	DN32	
	V	DN40	
	W	DN50	
	X	DN65	
	Y	DN80	
	Z	DN100	
T ()	Other connecting flanges		



SD70-Selection and composition

Selection example **SD70** **B** **H** **Q** **X** **J** **B** **3.15** **W** **A** **G** **U** **N**

1 2 3 4 5 6 7 8 9 10 11 12

8.2.Clamp connection	A	50.5mm
	B	64mm
	C	77.5mm
9.Flange sealing surface form	A	RF
	B	MFM
	C	FF
	D	TIG
	E	RJ
10.Flange standard	G	Flange (DIN standard)
	H	French (ANSI standard)
	I	HG/T20592
	J	HG/T20615
	K	EN
	T ()	Other flange standards
11.Flange pressure rating	S	PN6
	M	PN10
	U	PN16
	V	PN25
	W	PN40
	X	PN63
	Y	PN100
	Z	Class150
	R	Class300
	Q	Class600
T ()	Other nominal pressures	
12.authentication	A	Exi
	B	Exd
	N	There is no

Instructions:

It indicates that SD70 RF admittance level meter is intelligent digital display type, measuring range is 200mm, working power supply is 24VDC, output signal is normally open, material 304 stainless steel, installation method is top mounted, medium density is 3.15, flange specification DN50(DIN standard flange) (8,8.1,8.1) is one of three choices, flange sealing form is RF, Pressure rating PN16, non-explosion-proof.

Product Certification

Compliance and approval; Rodwig flow meters meet key standards and certifications for process measurement technology; To ensure the highest reliability in such settings;

