Ultrasonic Level	Sounding Bob	Capacitance	Vibration	Microwave Level	Swing	Open Channel Flow	Microwave Flow	Sludge Level	Sludge Density	ETC
		9p				31p				42p

Capacitance Level Switches

WKC Series

The WKC series capacitance level switches are all-purpose and primary products, having more than 1000 different electrodes. It can detect not only liquid but powder, granule, lump, paste, and foam. It is one of the most efficient products which WESS has developed for 30 years.

Features

- Operate reliably under fouling and build-up
- Can be used for measuring highly conductive materials.
- → Can apply to highly corrosive substance.
- This excels in mechanical intensity and durability.

Principle Of Operation

It measures the impedance variation between a main electrode and a tank-wall or between the main electrode and an earth electrode.

Standard Specification

Power	105/210VAC ±10% 50/60Hz				
Power Consumption	4.5VA				
Output Contact	SPDT, 250VAC 10A, 30VDC 10A Resistive load				
Ambient Temperature Allowance	-25 ~ +60°C				
Stable Detection Range	1. high sensitivity0.5~20 pF2. standard sensitivity $2\sim50 pF$ 3. low sensitivity $20\sim1,000pF$ 4. ultra low sensitivity $5\sim35 \Omega$				
Delay Time Set	Max. 10seconds				
Vibration	2mm 600~3,600/min In all direction for three hours				
Enclosure	IP66				

Delay Time Set

The output relay motion can be delayed up to ten seconds from the time of detection(the pilot lamp lights). Adjust the delay time with the setting volume as required. If the wetted time is shorter than the set delay time, the relay will not be operated.

Specification-Probe

Withstand load at electrode	Top end load(ℓ=250) 1kN(100kg)
Withstand Pressure at Electrode	980kPa
Ambient Temperature Allowance	-25 ~ +80°C
Impact	9.8kGa(10G) at electrode

Ultrasonic Level	Capacitance	Vibration	Rotary Paddle		Open Channel Flow	Microwave Flow	Sludge Level	Sludge Density	ETC
	9p			28p	31p	33p		38p	42p

WKC-E Series

Is one of the safest explosion-proof instruments applying in hazardous areas where water gas, hydrogen, carbon disulfide and others exist.

Standard Specification

Power	105/210 VAC ±10% 50/60Hz				
Power Consumption	4 VA				
Output Contact	SPDT, 100VA(200VAC Max, 2A Max)				
Detection Range	1. High sensitivity 0.5~20 pF 2. Standard sensitivity 2~50 pF 3. Low sensitivity 20~1,000pF				
Vibration	2mm 600~3,600/min In all direction for three hours				
Enclosure	IP66				

Specification-Probe

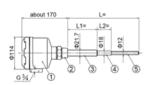
Withstand load at Electrode	Top End Load(ℓ=250) 1kN(100kg)
Withstand Pressure at Electrode	980kPa
Ambient Temperature	-25 ∼+80°C
Impact	9.8kGa(10G) at electrode

Sensor

→ A1(Standard Type, Straight Electrode)

The length of electrode can be adjusted upon request.

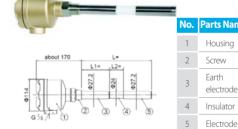




No.	Parts Name	Material
1	Housing	ADC
2	Screw	SUS304
3	Earth electrode	SUS304
4	Insulator	Polyacetal
5	Electrode	SUS304

→ A2(High-sensitivity Type, Straight Electrode)

The shape can be selectable depending on the loading condition.



→ A3(Ultimate-sensitivity Type, Straight Electrode)

It is effective in detecting low-dielectric-constant medium.



No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Earth electrode	SUS304
4	Insulator	Polyacetal
5	Electrode	SUS304

→ H1(Heat-resistant Type, Straight Electrode)

Materials of insulator and gasket can be changed subject to temperature and type of medium.



No.	Parts Name	Material
1	Housing	ADC
2	Screw	SUS304
3	Earth electrode	SUS304
4	Insulator	Teflon
5	Electrode	SUS304
6	Fin	AC

Material

SUS304

SUS304

Polyacetal

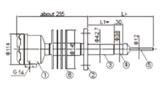
SUS304

Ultrasonic Level	Sounding Bob	Capacitance	Vibration	Rotary Paddle	Microwave Level	Swing	Open Channel Flow	Microwave Flow	Sludge Level	Sludge Density	ETC
		9p		21p	28p	29p	31p	33p			42p

─ H2(Ultimate Heat-resistant Type, Straight Electrode)

It works well against metal elasticity caused by temperature change.



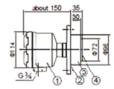


No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Earth electrode	SUS304
4	Insulator	Ceramic
5	Electrode	SUS304
6	Fin	AC

¬ F1(Standard Type, Flat Electrode)

Suitable for a tank where agitator exists.



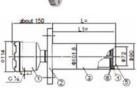


No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Insulator	Polyacetal
4	Electrode	SUS304

→ F2(Flat Electrode with Earth Electrode)

Suitable for big load and higher sensitivity.





No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Earth electrode	SUS304
4	Insulator	Polyacetal
5	Electrode	SUS304
6	O-ring	Silicon

P1(Standard Type, Pipeline Electrode)

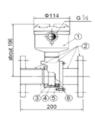
Suitable for Teflon-coated and high sensitive application

→ T2(Teflon- coated Type, Flared

Fixing by the ferrule. Teflon-coated one can also be

Straight Electrode)



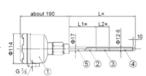


No.	Parts Name	Material
1	Housing	ADC
2	Earth electrode with flange	SUS304
3	Insulator	Polyacetal
4	Electrode	SUS304
5	O-ring	Silicon
6	Hexagon nut	SUS304

→ T1(Teflon-coated Type, Straight Electrode)

Suitable for viscous materials. It's less affected by fouling

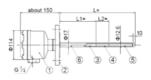




No.	Parts Name	Material
1	Housing	ADC
2	Earth electrode	SUS304
3	Insulator	Polyacetal
4	Electrode	SUS304
5	Tube	Teflon



manufactured.



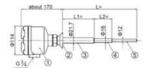
No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Earth electrode	SUS304
4	Insulator	Polyacetal
5	Electrode	SUS304
6	Tube	Teflon

Ultrasonic Level	Capacitance	Vibration	Microwave Level	Swing	Open Channel Flow	Microwave Flow	Sludge Level	Sludge Density	ETC
	9p								42p

A4(Ferrule-mounting Type, Straight Electrode)

Fixing by the ferrule. Teflon-coated one can also be manufactured.



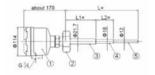


No.	Parts Name	Material
1	Housing	ADC
2	Ferrule	SUS304
3	Earth electrode	SUS304
4	Insulator	Teflon
5	Electrode	SUS304

A5(IDF Mounting Type, Straight Electrode)

Fixing by the IDF nut. Various shapes of electrodes are available.



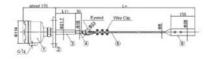


No.	Parts Name	Material
1	Housing	ADC
2	Union nut	SUS304
3	Earth electrode	SUS304
4	Insulator	Teflon
5	Electrode	SUS304

→ W1(Standard Type, Wire Electrode)

Typical wire-type. The wire length is adjustable in the field.



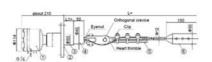


No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Earth electrode	SUS304
4	Insulator	Polyacetal
5	Electrode wire	SUS304
6	Weight	SUS304

→ W2(Withstand load Type, Wire Electrode)

Well designed to stand for a heavy load at the bottom of a big silo.





No.	Parts Name	Material
1	Housing	ADC
2	Flange	SUS304
3	Earth electrode	SUS304
4	Insulator	Polyacetal
5	Electrode wire	SUS304
6	Weight	SUS304