

Distributor: Sider Electronic Industries Ltd. Tel: 852-23892522 Fax: 852-23574546

SENSOR TECHNOLOGY

Email: info@sider.com.hk URL: www.sider.com.hk

MULTI-POINT CAPACITANCE TYPE LEVEL SWITCH

Model KCD

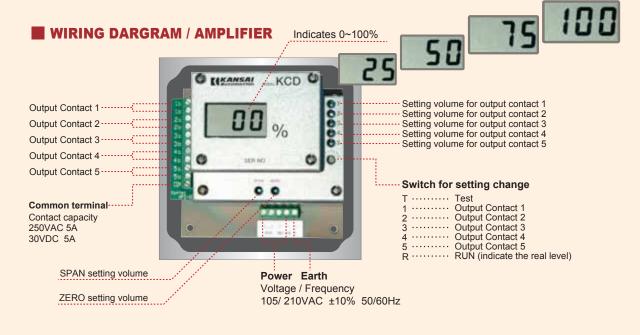


NO MOVING PART!! FIVE-POINT OUTPUT!!

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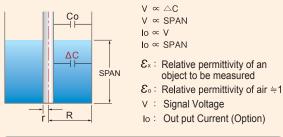




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PRINCIPLE OF OPERATION

As it is mounted coaxially with the tank wall (see the diagram on the right), capacitance $C \times (= Co + \Delta C)$ will be formed between the tank wall and the electrode. Converting Co to synchronized square-wave pulse, it retrieves pulse-width modulated in proportion to ΔC in the form of voltage level. It compares the voltage level with values set by the Set Volume and provides output contact signals.

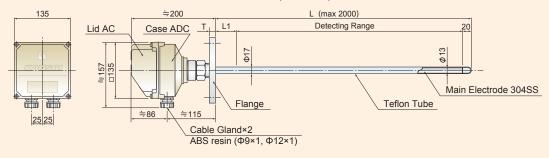


$$\Delta C = \frac{K \times (\mathcal{E}_{x} - \mathcal{E}_{o}) \times SPAN}{Log_{10} (R/r)}$$

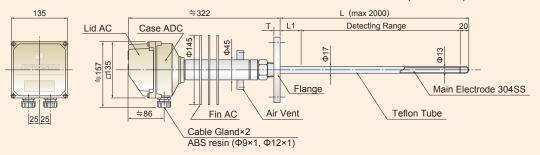
$$\Delta C = Cx - Co (Capacitance when tank is empty, K = constant)$$

OUTLINE DRAWING

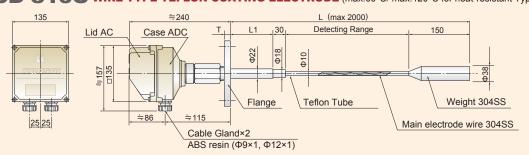
KCD-110C TEFLON COATING ELECTRODE (max.60°C)



KCD-110C-H HEAT-RESISTANT TEFLON COATING ELECTRODE (max.120°C)



KCD-31 OC WIRE-TYPE TEFLON COATING ELECTRODE (max.60°C/ max.120°C for heat-resistant Type)

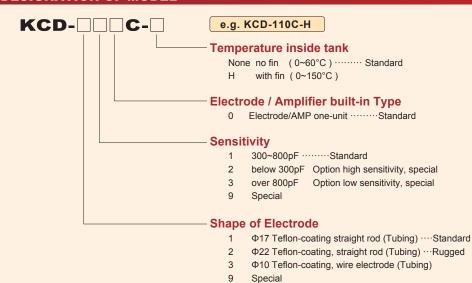


SPECIFICATION	
Supply Voltage	105 /210VAC ±10% 50/60Hz
Power Consumption	4.5VA
Temperature	0~55°C (No condensation)
Output Contact	5C COMMON
Contact Capacity	250VAC 5A / 30VDC 5A
Setting & Display	0~100% Digital display
Relative Permittivity suitable for measurement	Conductive liquids (depend on the object to be measured)
Accuracy	2% (Amplifier only)
Probe Length	Maximum 2m (Straight rod and wire / coated electrode) *Please consult with us when the probe exceeds 2m.

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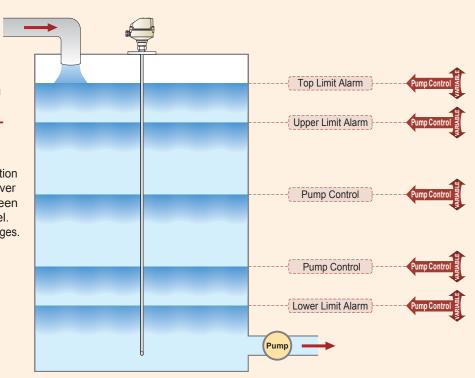
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DESIGNATION OF MODEL



Just a KCD model can control water supply / drainage and provide respective alarm

It is so simple to change a detection position with a flathead screwdriver while watching the display screen without changing the liquid level. Flexibly responds to process changes.



Line of business

- Rotary Paddle Type Level Switch
- Vibration Type Level Switch
- Swing Type Level Switch
- · Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor
- Capacitance Type Level Indicator
- Diaphragm Type Level Switch
- · Tilt Switch
- · Leak Type Level Switch
- · Microwave Switch

- Sounding Bob Type Level Indicator Ultrasonic Flow meter
- · Flow Switch

- Conductance Type Level Switch
- Float Switch
- · Float Type Level Indicator
- Ultrasonic Type Level Indicator
- Equipments For Conveyor Lines
- Dust Monitor System
- Zirconia Oxygen Analyzer
- · Laser Type Level Indicator
- · RADAR Type Level Indicator
- · On-line Sensors for Accurate Liquid Analysis
- *The specifications herein may be subject to change without advance notice.

*Please be sure to read USER'S GUIDE, Installation & Operation

Nuclear Power Generation to Rice Milling
All-round Manufacturer of Level Controllers for Powder, Granules and Liquid



Design,development,and manufacture of level measuring sensors