Distributor: Sider Electronic Industries Ltd. Tel: 852-23892522 Fax: 852-23574546 Email: info@sider.com.hk URL: www.sider.com.hk

KWS100 SERIES ULTRASONIC SLUDGE BLANKET LEVEL METER

NEWLY DEVELOPED CLEANING SYSTEM AND NEW ALGORITHMS ASSURE A STABLE MEASUREMENT



LEVEL SENSORS

KANSAI Automation Co., Ltd.

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KWS100 SERIES ULTRASONIC LEVEL METER FOR SUBMERGED SLUDGE

SOPHISTICATED INSTRUMENT FOR MEASURING A SLUDGE BLANKET LEVEL

KWS100 is a high precision device measuring the submersible sludge level with the most updated technology of ultrasonic measurement. The housing is waterproof rated IP68. The automatic cleaning system prevents the sensor surface from a buildup. The algorithm based on our long-term engineering experience can avoid noises caused by an agitator, a bridge, etc., resulting in complete measurement of the indistinct sludge blanket in a digestion tank, a thickener and others. And yet it excels in a good maintenance and a high reliability.

FEATURES

- A continuous real time measurement controls your facility effectively to reduce running cost and labour charge.
- An economical system with 4 sensors available.
- A built-in logger stores data of 10.000 points.
- Save wiring cost with an optional wireless system.
- The automatic cleaning system helps with reducing hard maintenance works.

APPLICATION

- Waste water Treatment Facility (Primary & Secondary Purifier, Condensation/Sedimentation Equipment)
- Water Purifying Facility
- Power Plant (Desulfurization Equipment)
- Petro chemistry, Sludge Purification Tank



Sensor

Sludge

surface

Clean water

Layer of sludge

laver

Merits of Sludge level meter

- A real time control reduces the pumping cost more than scheduled time control.
- Optimizes the heating energy with an appropriate control of the removal sludge level in the tank.
- The real time control in the primary treatment reduces a load on downstream processes.
- Improves the treatment efficiency with consistent and smooth operation of overall treatment facility.
- Optimizing operation to meet required treatment variation makes the running cost lower.

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SPECIFICATION

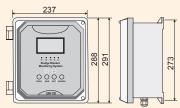
GENERAL DRAWING

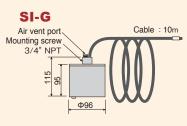
CONTROLLER		
Application	Single Type	Multiple Type
Туре	KWS100-S	KWS100-M
Range	0.35~10m	0.35~10m
Resolution	1 cm	1cm
Accuracy	±0.5% FS or 2.5cm	±0.5% or 2.5cm
Temperature	−10~60°C	−10~60°C
Quantity of Sensor	1	4 at the maximum
Data Storage	10.000 point	10.000 point
Display	Value, Echo, Trend	Value, Echo, Trend
	Level, Distance, Temper. mA, Time	Level, Distance, Temper. mA, Time
Output	4-20mA 100-750Ω maximum 3SPDT (5A 250VAC) RS232C (Standard) RS485, Profibu-DP	4-20mA 100-750Ω maximum 3 SPDT (5A 250VAC) RS232C (Standard) RS485, Profibu-DP
Power Source	100~240VAC 50/60Hz 20~30VDC Option	100~240VAC 50/60Hz 20~30VDC Option
Power Consumption	Less 6W	Less 6W
Housing Material	Main body: FRP	Main body: FRP
	Window: Polycarbonate	Window: Polycarbonate
Weight	3.0kg	3.2kg
Housing Rating	IP67	IP67
Certificate	CE	CE

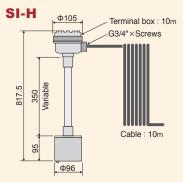
SENSOR			
Туре	SI-G	SI-H	
Material	Main Body : SUS316 Transmitting face: grey PVC Teflon(T)	Main Body : SUS316 Transmitting face: Teflon	
Cleaning	built-in nozzle		
Connection	3/4" NPT	Advance arrangement	
Cable Length	10m(standard)、100m max.	10m (standard)、100m max.	
Temperature	−10~60°C	−1~100°C	
Beam Angle	5°	5°	
Frequency	160kHz	160kHz	
Weight	2.5kg(including10m cable)	4kg (including 5m cable)	
Housing Rating	IP68	IP68	



ENV100-S/M







V

OPTION PRODUCTS



Cleaning Unit



Sensor / controller mounting kit



PORTABLE TYPE

Controller is equipped with a rechargeable battery (a charger is attached), and Sensor can wear a float. Being of a handy model, it can easily measure the sludge interface level in various places.





IT CAN READILY Measure only if you have the float buoyed.

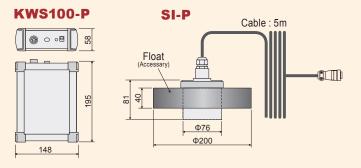
FEATURES

- No need to carry cable
- No electric power supply is required because of the rechargeable battery loaded.
- Type of VTA: Visual Threshold Adjustment
- Type of ASF: Abnormal Signal Filter

APPLICATION

- Water Purification Plant, Clarifiers for Wastewater Treatment Plant
- Water Purification Plant, Thickeners for Wastewater Treatment Plant
- Thickeners in plants
- Settling Tanks, Lake, Settling Pond

GENERAL DRAWING



Line of business

- Rotary paddle level switch
- Vibration level switch
- Swing level switch
- Acoustic level switch
- Capacitance level switch
- Capacitance proximity sensor
- Capacitance level meter
- Diaphragm level switch
 Tilt level switch
- Leakage level switch
- Microwave level switch
- Sounding level meter

- Conductance level switch
- Float switch

· Flow switch

- Float level meter
- Ultrasonic level meter
- Conveyor peripheral sensor
- Dust monitoring system
- Oxygen analyzer
- LAZAR Level meter
- RADAR Level meter
- Sludge blanket level meter
- Ultrasonic flowmeter

SPECIFICATION

CONTROLLER		
Application	Portable Type	
Туре	KWS100-P	
Range	0.35~10m	
Resolution	1cm	
Accuracy	±0.5% or 2.5cm	
Temperature	−10~60°C	
Quantity of sensor	1	
Data Storage	Depend on setting	
	Value, Echo, Trend	
Display	Level, Distance, Temper mA, Echo, Time	
Output	RS232c	
Power	Rechargeable batter	
Power Consumption	Less 6W	
Housing Material	Aluminum	
Weight	1.5kg	
Housing Rating	IP65	
Certificate	CE	

SENSOR			
Туре	SI-P		
Material	Main Body : Clear PVC Transmitting face : epoxy		
Cleaning	N/A		
Connection	N/A		
Cable Length	5m		
Temperature	−10~60℃		
Beam Angle	5°		
Frequency	160kHz		
Weight	700g (including 5m cable)		
Housing Rating	IP68		

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

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*Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument. *The specifications herein may be subject to change without advance notice.