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KWS100 SERIES ULTRASONIC SLUDGE BLANKET LEVEL METER

NEWLY DEVELOPED CLEANING SYSTEM AND NEW ALGORITHMS ASSURE A STABLE MEASUREMENT



LEVEL SENSORS

KANSAI Automation Co., Ltd.

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.

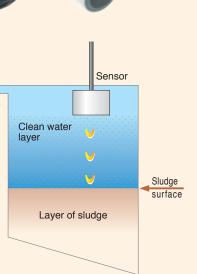
APPLICATION

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



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.

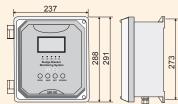


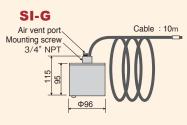
SPECIFICATION

CONTROLLER				
Application	Single Type	Multiple Type		
Туре	KWS100-S	KWS100-M		
Range	0.35~10m	0.35~10m		
Resolution	1cm 1cm			
Accuracy	t ±0.5% FS or 2.5cm ±0.5% or 2.5cm			
Temperature	−10~60°C	−10~60°C		
Quantity of Sensor	r 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	0utput 4-20mA 100-750Ω maximum 4-20mA 100-750Ω maximum 3SPDT (5A 250VAC) 3 SPDT (5A 250VAC) RS232C (Standard) RS232C (Standard) RS485, Profibu-DP 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		

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ENV100-S/M







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OPTION PRODUCTS



Cleaning Unit



Sensor / controller mounting kit



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	th 10m(standard),100m max. 10m (standard), 100m			
Temperature	e −10~60°C −1~100°C			
Beam Angle	5°	5°		
Frequency	160kHz	160kHz		
Weight	ght2.5kg(including10m cable)4kg (including 5m cable)			
Housing Rating	IP68	IP68		



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.

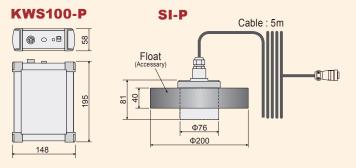
FEATURES

- 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



· Flow switch

Float switch

Float level meter

Oxygen analyzer

· LAZAR Level meter RADAR Level meter

Ultrasonic flowmeter

Ultrasonic level meter

Conductance level switch

· Conveyor peripheral sensor

Dust monitoring system

Sludge blanket level meter

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

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Agent

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°C	
Beam Angle	5°	
Frequency	160kHz	
Weight	700g (including 5m cable)	
Housing Rating	IP68	

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

KANSAI Automation Co., Ltd.