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MICROPROCESSOR CONTROL  
SOUNDING LEVEL METER

# KSL-DS4

DIGITALLY INDICATE QUANTITY WITH ONE-TOUCH OPERATION

## CONTROLLER



MICROPROCESSOR CONTROL SYSTEM

SOUNDING LEVEL METER

# KSL – DS4 CONTROLLER



- Selecting a Tank with One-touch Operation
- Discretionary Detection by Application
- Intelligent Diagnosis, Equipped with Memory Function

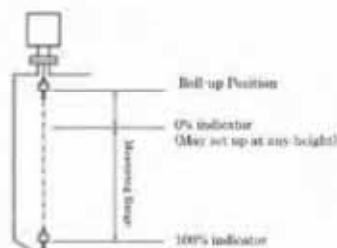
## System Outline

The descent distance of measuring tape/wire may be converted to the stock volume in a tank. The detector detects in a mechanical manner. The measuring findings are shown by height(m), %, ton, m<sup>3</sup>. You can select an indication of either Remains or Vacated Portion.

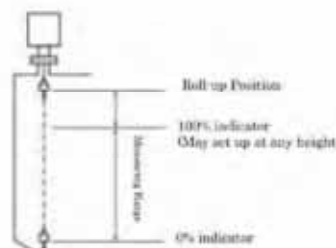


## Features

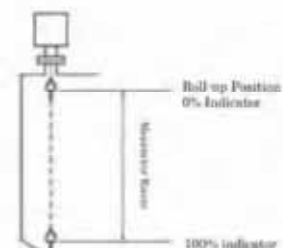
- Taking a mechanical detecting measurement, it can reliably operate regardless of fluctuations of the measuring substance or possible noises.
- If you have only to push a measuring button of any tank, you can select the tank you want and start measuring.
- As it is a so-called smart controller to be linked with 4 units(8 as option), you can utilize the storage box effectively.
- You can build up a safer and more reliable system with applicable ones that you select out of a variety of detectors depending on the tank height, measuring substances and conditions.
- All you need is to set up controllers in the operator's room. You do not need any adjustment work on a tank.
- You can safely operate the system (depending on a detector you select) in fulfilling diagnostic function (burial, measure cut-off).
- Even in case of power-off, the formerly measured and set values can be retained with CPU and memory installed.
- You can use a common control cable for wiring between a detector and a controller. There is no limit for extension.



KSL-DS4/Indicate Vacated Portion



KSL-DS4/Indicate Remains



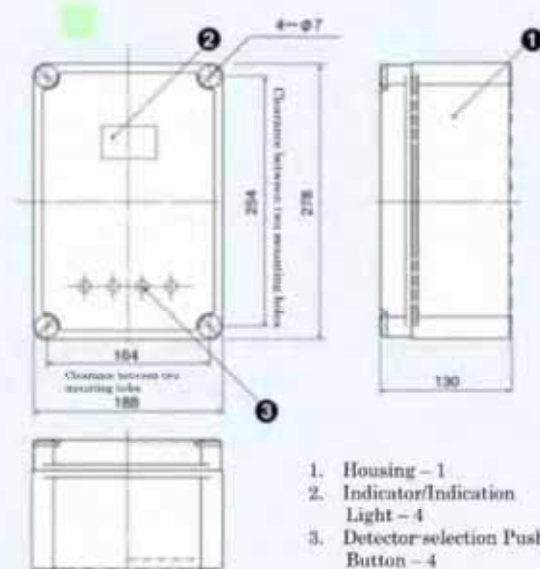
Other Firms/Indicate Vacated Portion

### Controller Standard Specifications

- Housing Type : Indoor Wall-mounted Type(W188 x H278 x D130mm)  
 Tolerable Temperature : 0 – 50°C  
 Power : 100VAC or 200VAC± 10% 50/60Hz  
 Configured Detector : Select from KSL-W2B, W3, T2, T8(AU model) and so on.  
 Number of Connected Detectors: 4 units(S as option)  
 Cable Type : Regular Control Cable(No extension limit)  
 Number of Cable Cores : W2B – 6 cores  
 W3, T2, T8(AU model) – 7 cores  
 Measuring Range : 0 – 20m(T2, T8(AU model) Option Max. 40m) – Varied by a selected detector  
 Indicator : 7-segment LED(W8 x H14.2mm)  
 Level Indication : Height(m), Specific Volume Bulk(%), Conversion(m<sup>3</sup>, ton) – No unit indicated  
 Indication Format : Set up to indicate either vacated portion or remains.  
 Indicated Conversion Values : Discretional(in the range of 0 to 999)  
 Memory Function : EEPROM, Set Values or Values formerly measured  
 Diagnostic Function : Burial Alarm, Measure Cut-off Alarm – depend on Selected Detector  
 External Output : Not available(display only).



### Dimensions of Controllers



### Example of Application

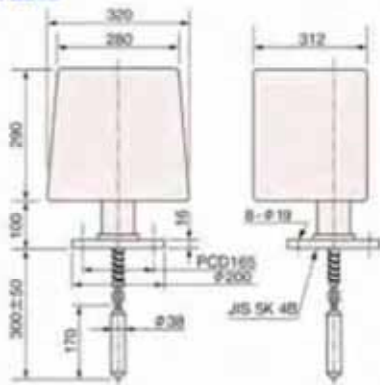
- a) Batch Plant : Cement Aggregate
- b) Cement Service Station: Cement
- c) Asphalt Plant : Chamotte, Aggregate
- d) Breadmaking/Noodle Production/Confectionery Plant : Flour, Secondary Materials
- e) Plastic Process Plant : Plastic Powder/Pellet
- f) Feed Mill/Feed Distribution Center : Mixed Feed(Powder/Pellet)
- g) Rice Milling/Barley Cleaning Plant : Rice, Barley

### Example of System Configuration



## Detector Standard Specifications

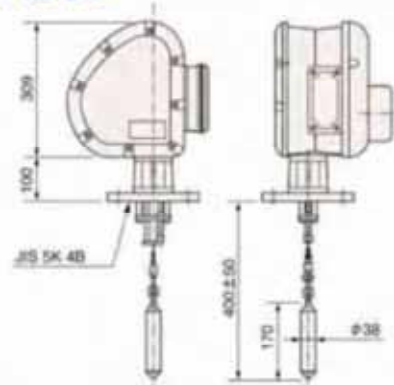
### KSL-W2B



#### Standard Specifications

Measuring Range	φ - 200/1 galton/1000l	Power Capacity	10VA
Measures	Water, PS, SS, Oil	Mounting Dimension	400x100x100
	φ 1.5mm	Weight	150g
Cut-off Load	170kg	Cable Gland	φ 27 x 1
Power	100VAC or 200VAC φ 1, 30/50Hz	Protection Grade	IP-33 or equivalent
		Electrical Speed	1.5rev/min 50Hz 1.5rev/min 60Hz

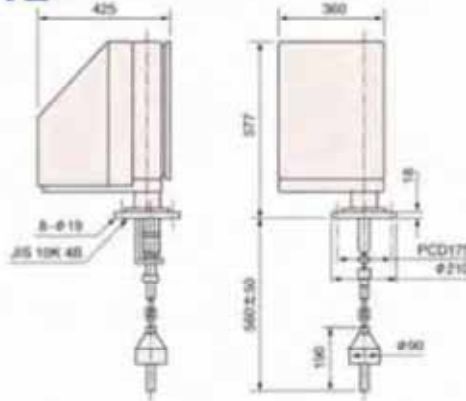
### KSL-W3T



#### Standard Specifications

Measuring Range	0 - 200/1 galton/1000l	Power Capacity	10VA
Measures	Water, PS, SS, Oil	Mounting Dimension	400x100x100
	φ 1.5mm	Weight	150g
Cut-off Load	170kg	Cable Gland	φ 27 x 1
Power	100VAC or 200VAC φ 1, 30/50Hz	Protection Grade	IP-33 or equivalent
		Electrical Speed	1.5rev/min 50Hz 1.5rev/min 60Hz

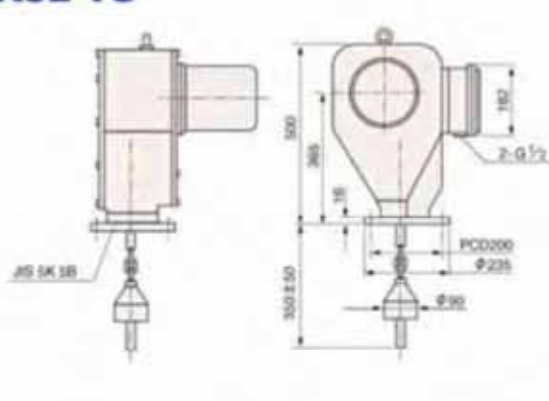
### KSL-T2



#### Standard Specifications

Measuring Range	φ - 200/1 galton/1000l	Power Capacity	10VA
Measures	Water, PS, SS, Oil	Mounting Dimension	400x100x100
	φ 1.5mm	Weight	150g
Cut-off Load	170kg	Cable Gland	φ 27 x 1
Power	100VAC or 200VAC φ 1, 30/50Hz	Protection Grade	IP-33 or equivalent
		Electrical Speed	1.5rev/min 50Hz 1.5rev/min 60Hz

### KSL-T8



#### Standard Specifications

Measuring Range	φ - 200/1 galton/1000l	Power Capacity	10VA
Measures	Water, PS, SS, Oil	Mounting Dimension	400x100x100
	φ 1.5mm	Weight	150g
Cut-off Load	170kg	Cable Gland	φ 27 x 1
Power	100VAC or 200VAC φ 1, 30/50Hz	Protection Grade	IP-33 or equivalent
		Electrical Speed	1.5rev/min 50Hz 1.5rev/min 60Hz

◎予告なく仕様変更することがありますので予めご了承下さい。  
Specifications and descriptions of this catalog are subject to change without notice for improvement.

■ 営業品目 HANDLING ITEMS  
① 回転式レベルスイッチ Rotary Float Type Level Switch

② サウンジング式レベルメータ Sounding Dip Type Level Indicator  
③ フロースイッチ Flow Switch

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

**KANSAI Automation Co., Ltd.**

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