



KANSAI Automation Best Products

General Catalogue

EDITION

2

Level Switch for Powder

Level Switch for Powder & Liquid

Non-Contact Level Meter

Flow Sensor

Contact Level Meter

Liquid Level Meter & Switch

Conveyor Peripherals

Environment Measurement Instrument

Special Measurement Instrument

Corporate Philosophy

Aiming for A RAISON D'ETRE indispensable to the betterment for life of mankind with
OUR ZEAL AND OUR ORIGINAL TECHNOLOGY

Management Creed

[Zeal and Originality]

PASSION above all can be a foundation for strength.
Exerting our knowledge and making the impossible come true in the firm belief that
our possibilities may be expanded infinitely

ORIGINALITY can pave a new path.
Exerting our technical capabilities and turning adversity to leap in the hope that
our dream may come true.

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Powder Level Switch

SWING TYPE LEVEL SWITCH

SWINGMASTER®

One and only development for Powder Level Switch, based on our extensive experiences.

It's New



SWM Series

Highly functional as well as cost effective. Versatile enough to be used for any applications.

SWM-8B



Newly developed "SWING MASTER" Future standard level switch for powder

SWG-8B



SWG Series

Integration of electronics and mechatronics. Tough functionality against rough application.

SWM-8BS



SWM-8BH



Swing!!



SWG-8BS



SWG-8BH



Powder Granules

MICROWAVE TYPE LEVEL SWITCH

MWS2-24TN/24RN Type

The attenuation of microwave detects levels of powder, granules and blocks as well as pulverized materials. Heat-resistant type can be available.



MWS2-24TN



MWS2-24RN

Transmission of 24GHz enables to detect widely and sharply.

Powder Granules Lump

Powder Level Switch

ROTARY PADDLE TYPE LEVEL SWITCH

NL Series

Standard type for detecting powder, versatile usages.



FL-GM Series

Flame-proof model
d2G4

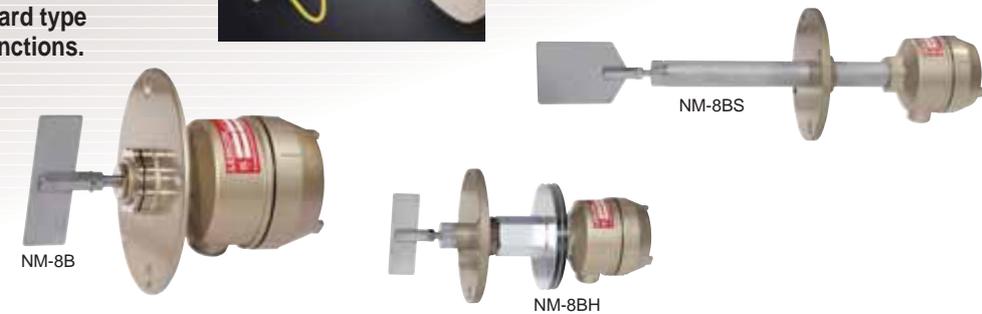


24VDC Power Adaptive

Powder Granules

NM Series

Cost effective, standard type with no excessive functions.

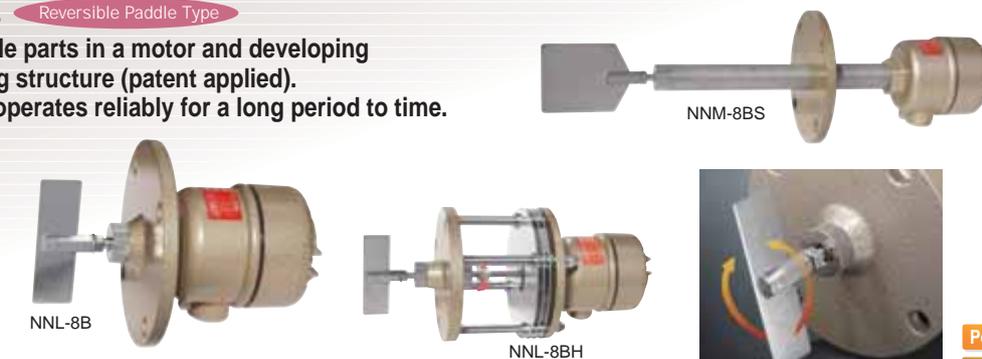


24VDC Power Adaptive

Powder Granules

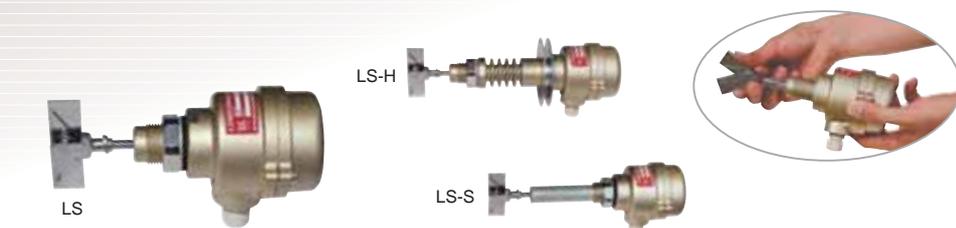
NNL/NNM Series Reversible Paddle Type

Removing expendable parts in a motor and developing the original switching structure (patent applied). The motor unit now operates reliably for a long period to time.



Powder
Granules

LEMICON Series Extremely Compact Type Compact, light weight, and lowest price on top of high efficiency and quality.



Powder Granules

Powder & Liquid Level Switch

CAPACITANCE TYPE LEVEL SWITCH

ALN Series

Extremely high-stable & reliable detection
Versatile level switch
being used for many applications.

ALN-12□-□
Teflon-coated
Type

ALN-11□-□H
Super Heatproof
Type

ALN-14□-□
Wire Type

ALN-131-□
Flat Type

ALN-155-□
Pipeline Type

SL-11□-□
Straight-rod
Type

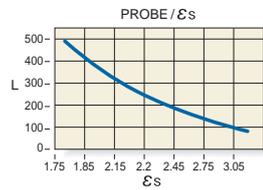
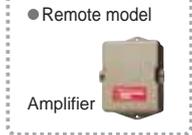
SL Series

Certified as the Intrinsically Safe Explosion-proof can be accommodated to any shape of electrode.



Relay Power Unit

Intrinsically safe model (i)3nG5



Powder Granules Liquid Surface Interface

VIBRATION TYPE LEVEL SWITCH

KVK Series

A single vibrating probe realizes as delicate vibration as tuning fork.
High reliable detection and various product line.

High Sensitivity Type

KVA/KVF Series

Our own technology has made it possible to line up series of withstand-load probe that can still come with delicate vibration.

Withstand Load Type

Remote model



Amplifier



KVK-111



KVK-36□



KVA-111



KVA-13□



KVF-121



KVS-16□-P

KVS Series

Intrinsically safe model i2G4



Barriey/Power Unit

Powder Granules Liquid Underwater Solid

KVX Series

Pursuing simple operation.
Our own technology realizes more stable vibration with new physical principle.

Compact

KVX-111



KVX-112



KVX-211

XV2 Series

Extremely compact and light suitable for such a place as the compact size is required in particular.

Extremely Compact Type



XV2-111



XV2-121



XV2-211

Powder Granules Liquid



Non-Contact Level Meter

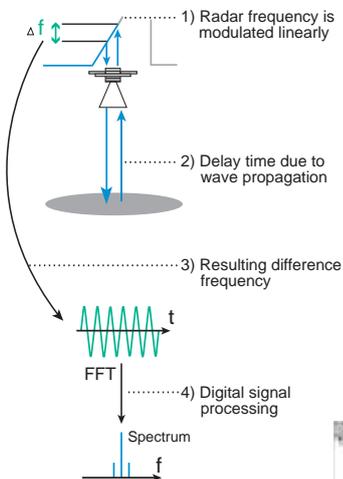
RADAR TYPE LEVEL TRANSMITTER

Outstanding software ensures the most reliable detection. Microwaves make it possible to detect levels that have so far been difficult to be measured.

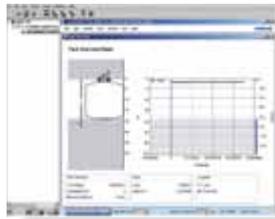
ATEX
EEExia II CT6
EExd ia II C T6

VG Series [FMCW TYPE]

It guarantees the reliable detection in exercising frequency modulated continuous measurement, empty tank spectrum and tank bottom following principle.

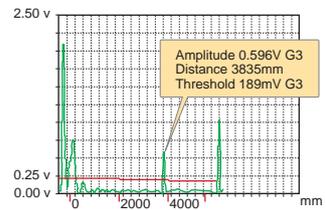
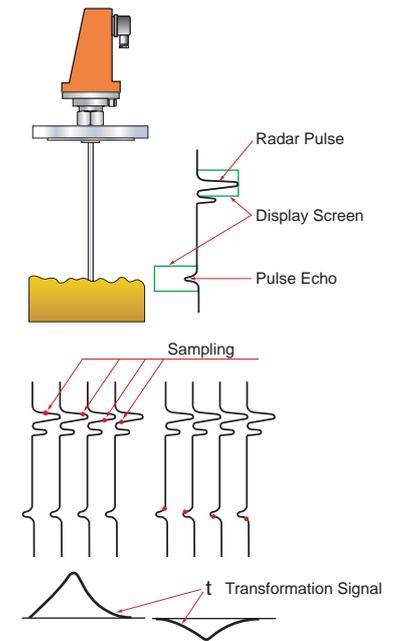


● PC Display (VG)



VF Series [TDR TYPE]

Micro pulses are sent toward a product to be measured via a probe, and it exactly measures levels with no influence of obstacles such as powder, dust and vapor.



● PC Display (VF)

Granules Liquid

LASER TYPE LEVEL INDICATOR

Best suitable for non-contact measurement at the places where it is highly difficult or dangerous to measure!



LASER RANG-L

It measures levels by pinpoint in utilizing semiconductor laser. The maximum range is 30 meters.



LASER RANG-S

Extremely compact Laser Type Level Meter that can measure up to 10 meters by pinpoint.



Granules Liquid

Non-Contact Level Meter

ULTRASONIC LEVEL INDICATOR

REFLEX

REFLEX
SCANFLEX



Good for measuring a long range and scanning. Powerful enough to measure a wide range of products.

MULTIFLEX



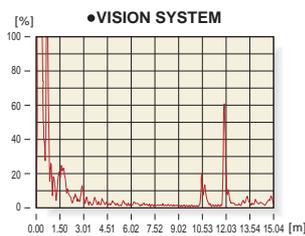
It can be applied to all processes from powder to liquid with particular setups.

MINIFLEX LR

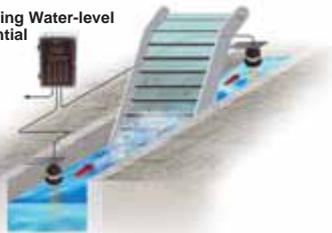


MINIFLEX LR

It builds in the minimum function with a user-friendly software.



•Measuring Water-level Differential



MICROFLEX-C

Amplifier-integrated Type, coupled with two-wire loop powered. Easy to set up and handle.



ATEX
EExm II T6

Powder Granules Liquid

ULTRASONIC LEVEL METER

Ultimate Solution for Compact Ultrasonic Type

It exactly measures levels with narrow beam width.

Transmitter/Converter in one unit



LU83-5161



LU20-5061



LU20-5061-IS

CSA
Intrinsically safe



Safety barrier MTL728+

Intrinsically safe
model Exia II CT6

Liquid

Flow Sensor

MICROWAVE TYPE FLOW SENSOR



KFD-1/KFD-2

24GHz helps this sensor make highly sensitive and reliable. It does not overlook even a grain.

Powder Granules

PARTICLE FLOW SENSOR



KDS-1

Monitoring the concentration of exhausted dust and minute particles and detecting flow/no flow.

Powder Granules

POWDER FLOW MONITOR

Electrodynamics System FM60

Reliably detect the concentration changes of Powder, Easy to handle, least maintenance



Powder Granules

Contact Level Meter

SOUNDING TYPE LEVEL METER

Various product lines.
They can be applied to all processes, and
they are the best selling lines for their reliability.



KSL-T2
SPAN:MAX40m
Standard
Powder
Granules
Lump
Underwater Solid

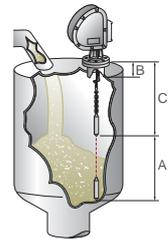
CPU built-in models. Upgraded models are all weathertight constructions with aluminum casting body.



KSL-T8
SPAN:MAX40m
Build-in CPU
Powder
Granules
Lump
Underwater Solid



KSL-MT
SPAN:MAX20m
Build-in CPU
Powder
Granules
Underwater Solid



A. Measuring Range
B. Height of Nozzle
C. Roll-up Position



KSL-W3T
SPAN:MAX20m
Standard
Powder
Granules
Underwater Solid



KSL-W2B
SPAN:MAX20m
Standard
Powder
Granules
Underwater Solid

It can be applied to hazardous areas

KSL-GT
SPAN:MAX30m
Flame-proof model
Exd II BT4
Powder
Granules
Lump
Underwater Solid



Optional Units



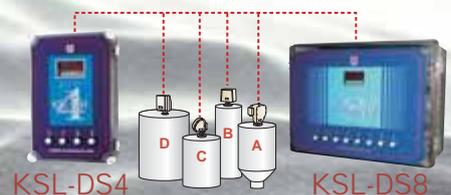
Optional Units



SOUNDING TYPE LEVEL METER CONTROLS

A controller controls many units (4 for DS4 and 8 for DS8). Selecting a tank with one-touch operation. Memory function is equipped.

Microprocessor Control System

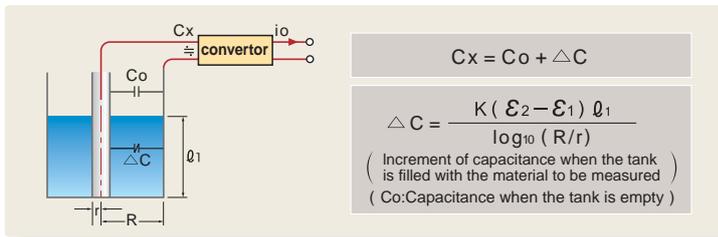
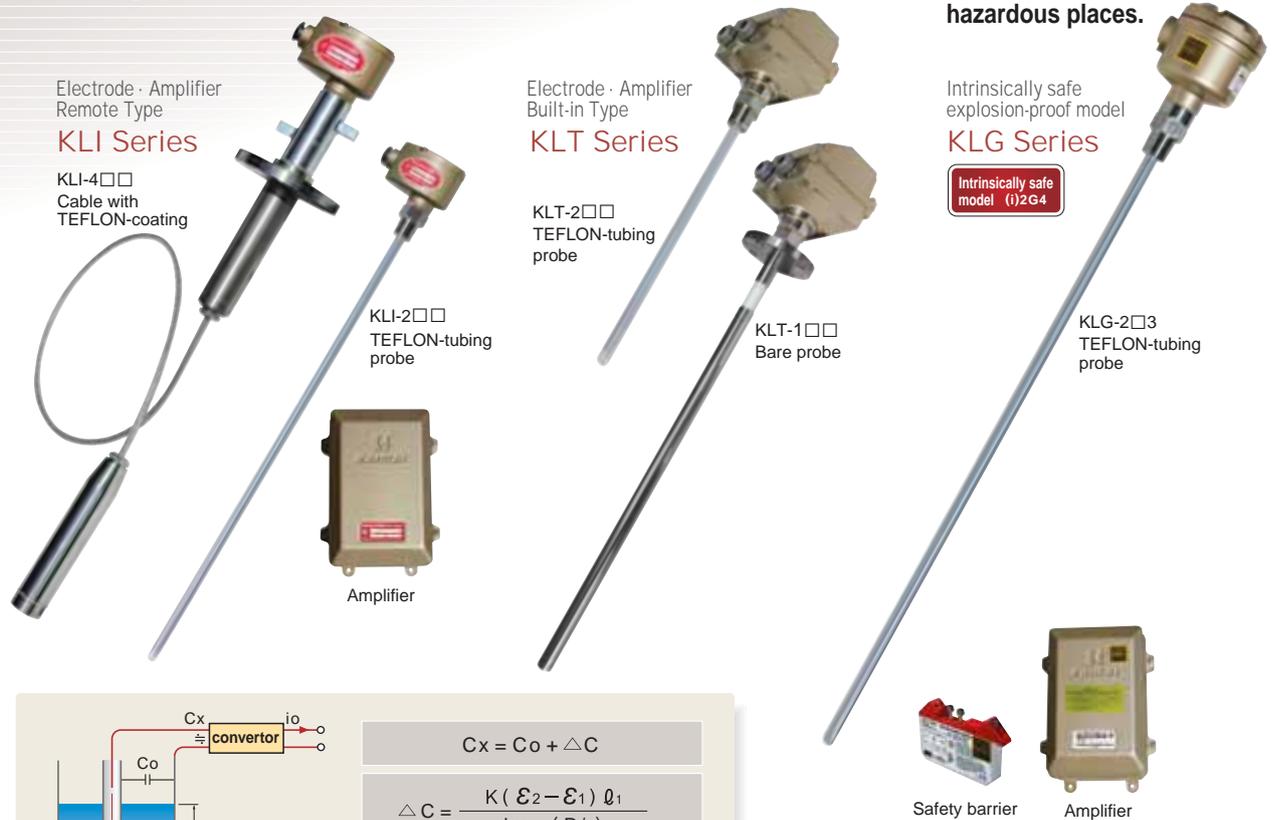


Contact Level Meter

■ CAPACITANCE TYPE LEVEL INDICATOR

No moving part. It can be applied to any processes.
Best selling line in continuous measurement

Various kinds of electrode that
can be provided for
hazardous places.

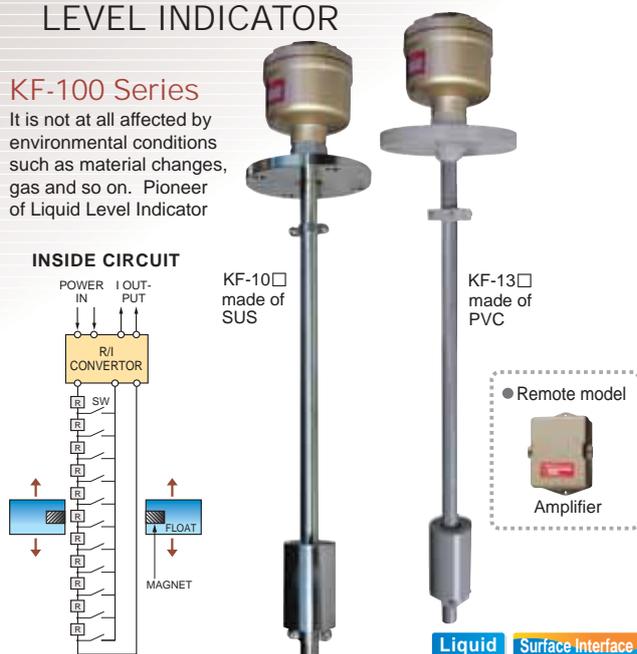


Powder Granules Liquid Surface Interface

■ VERTICAL FLOAT TYPE LEVEL INDICATOR

KF-100 Series

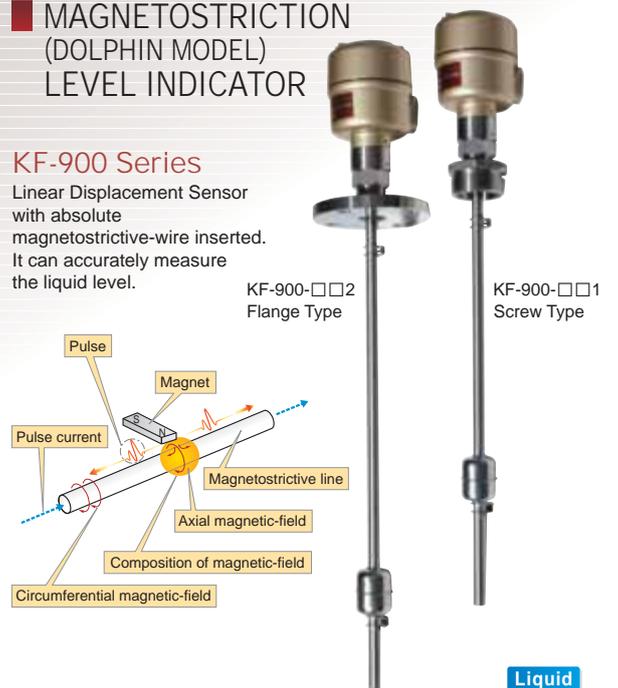
It is not at all affected by environmental conditions such as material changes, gas and so on. Pioneer of Liquid Level Indicator



■ MAGNETOSTRICTION (DOLPHIN MODEL) LEVEL INDICATOR

KF-900 Series

Linear Displacement Sensor with absolute magnetostrictive-wire inserted. It can accurately measure the liquid level.



Liquid Level Meter & Switch

HORIZONTAL FLOAT TYPE LEVEL SWITCH

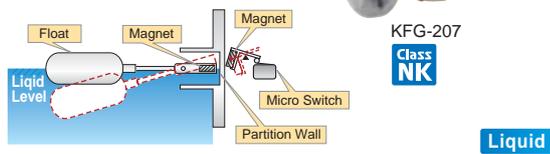
Many products up graded depending on application and installation. Best selling line for its reliability.

KF200 Series



KFG200 Series

Flame-proof model
d2G4



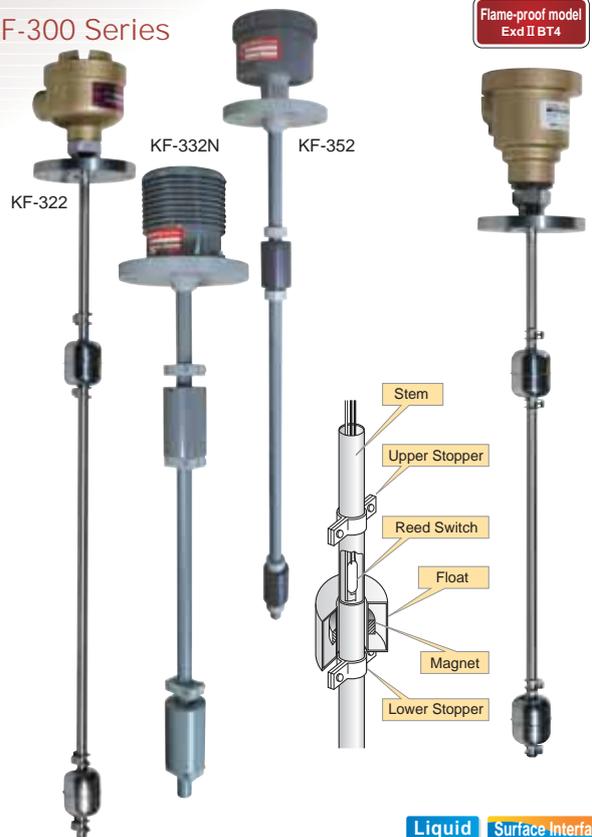
VERTICAL FLOAT TYPE LEVEL SWITCH

These can be applied to all processes with various sizes and materials.

KFE-3000 Series

Flame-proof model
Exd II BT4

KF-300 Series



COMPACT FLOAT SWITCH

KS Series Suitable for smaller tanks.



DIAPHRAGM TYPE LEVEL SWITCH

KF500 Series

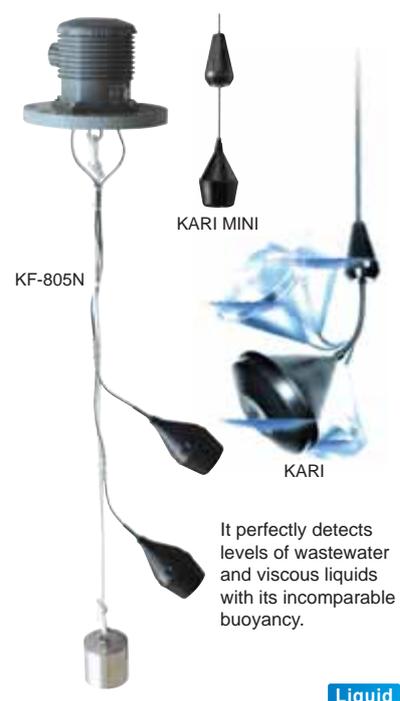
Can be used for viscous liquids as well as high temperature liquids. Diaphragm can reliably detect level.



ELECTRODE TYPE LEVEL SWITCH



MULTI-POINT BALL FLOAT SWITCH/ KARI FLOAT SWITCH



Conveyor Peripherals

CONVEYOR PERIPHERALS SWITCH

KP-800 Series

Ensuring safety operation of Conveyor Lines

Detecting operational exceptions such as belt moving-off-to-one-side.



Powder Granules Lump

LEAK TYPE LEVEL SWITCH

KEL-2 Series



No moving part.
 Suitable for measuring sand, aggregate, limestone and so on.

Powder Granules Lump

TILT TYPE SWITCH



TC Series

Simple mechanical construction tough enclosure.
 Level measurement with simple and reliable operation

Powder Granules Lump

FLOW SWITCH

KP-800 Series

Flow detection of powder and granules on a conveyor.



Powder Granules Lump

SPEED DETECTOR

Reliably catching changes of conveyor speed, preventing motor and other components from being damaged.

KPS Series



Powder Granules Lump

Environment Measurement Instrument

DUST MONITOR

Reliably measure low to high dust concentrations in every process

Electrodynamic Series

Measure dust concentrations reliably and accurately

ATEX
EX II 1G EExia II CT4
EX II 1D

DT373
Absolute Dust Monitor (Standard)



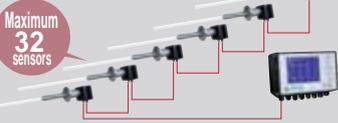
DT990



Multi-lay-out, enabling to connect 4 sensors

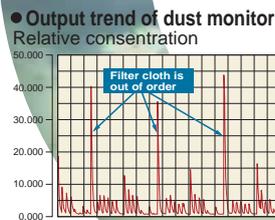
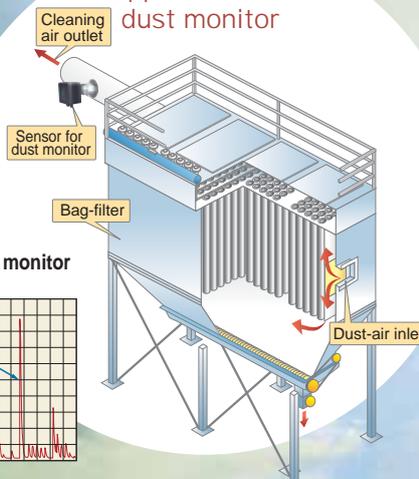


Fieldbus can control at most up to 32 sensors



Maximum 32 sensors

Application of dust monitor



High-resolution Monitoring of Bagfilter Conditioning

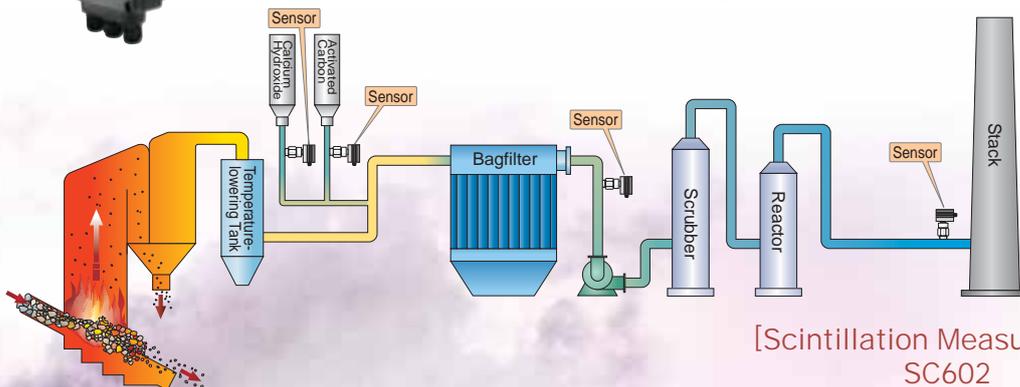
MARK V



Controller-integrated Type. Easy to handle.

DA50

Outstanding User-friendliness and Unique Parameter



[Scintillation Measurement] SC602

[Forward Scattering] LMS181

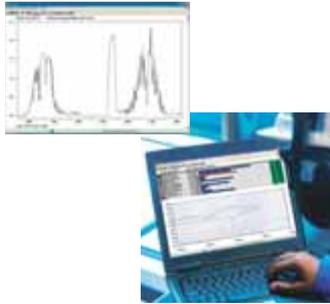


Can fit any ducts in a large diameter as well as incinerators of a large size.

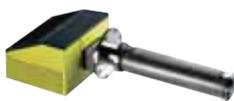
Environment Measurement Instrument

FTIR Gas Analyzer

Fourier Transform Infrared Spectroscopy
Continuously monitor the components of more than 12 different gases in the specific algorithm.



CEMS System



In-Situ
Continuous Gas Analysis



Zirconium Oxygen Analyzer

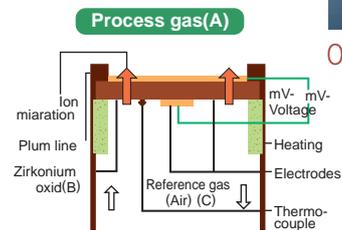
Highly Accurate Measurement with Special Sealing Technique Reducing maintenance with long-lived cell



OXITEC 5000



OXITEC ECONOMY



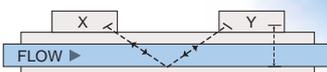
Special Measurement Instrument

Ultrasonic Liquid Flow Meter

Portaflow PF-300



Simple and Quick set-up by way of Fast Strapping



Ultraflow UF-2000



Stationary Model meeting a variety of applications

Dopplerflow PDFM-IV



Flow meter utilizing the ultrasonic Doppler effect, suitable for measuring liquids containing bubbles or solids !



Portaflow PF-204 Plus/216

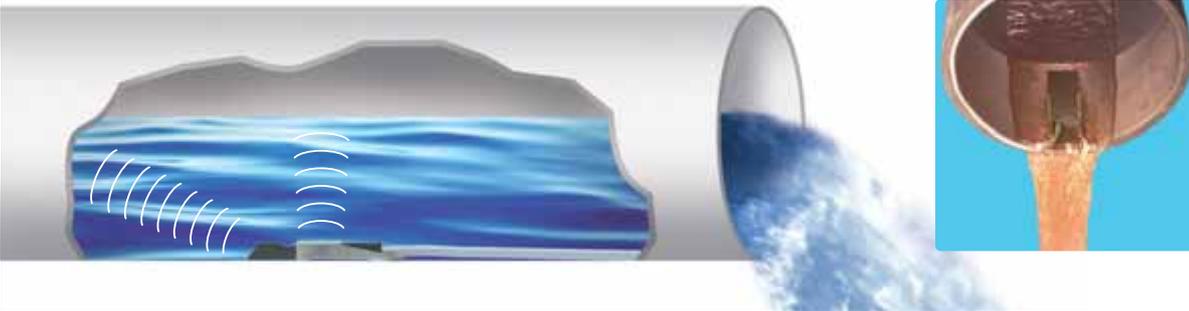
Best suitable for measuring small-bore pipes

Special Measurement Instrument

■ Ultrasonic Area-velocity Flow Meter

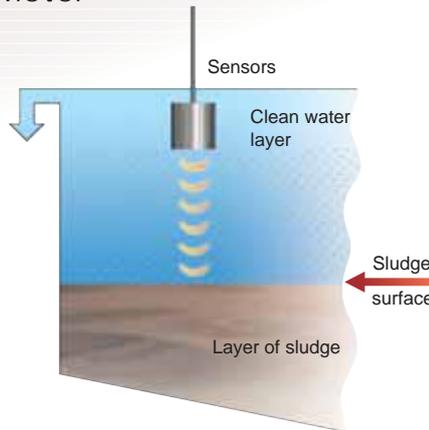
AVFM-II
A single sensor can measure both
flow velocity & level.

No Flume or Weir required



■ Ultrasonic Sludge Blanket Level Meter

ENV100
Can reliably measure
submerged sludge-layer
in a septic tank, thickener
or the like.



■ Online Fluid Analyzing Sensor

FluidScan-S
Can measure fat concentrations in milk/ liquids
and detect composition
of products.

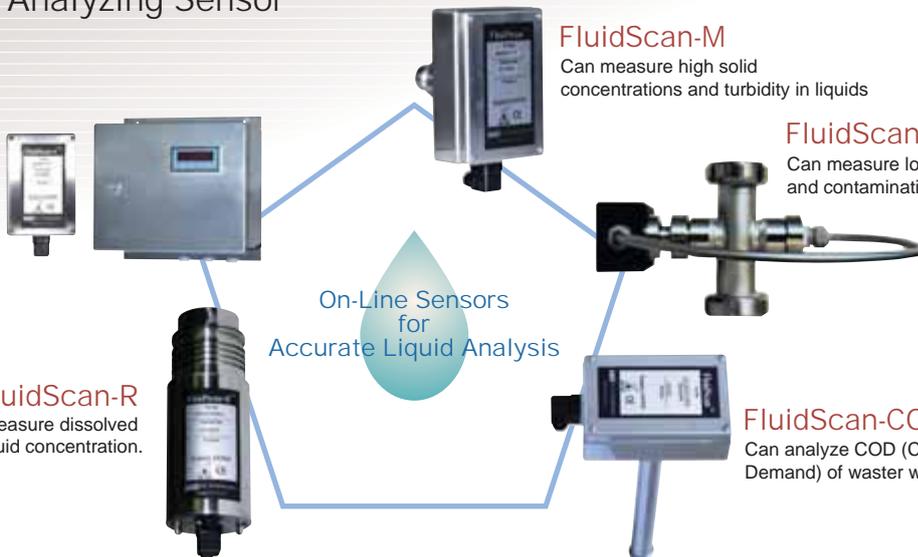
FluidScan-R
Can measure dissolved
solids / fluid concentration.

FluidScan-M
Can measure high solid
concentrations and turbidity in liquids

FluidScan-F
Can measure low concentrations
and contamination of fresh water

On-Line Sensors
for
Accurate Liquid Analysis

FluidScan-COD
Can analyze COD (Chemical Oxygen
Demand) of waster waters.



OPTIONAL UNITS

Controller



Sensor Voltage (24VDC) and Scaling Function Equipped as Standard, additionally Built-in Linealizer

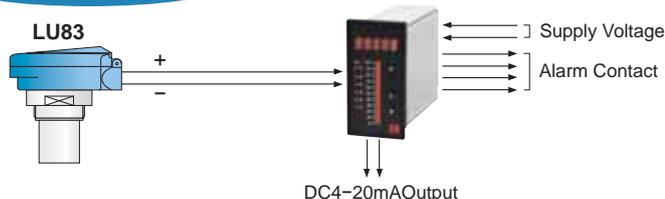
Recommended Adaptive Model

- VG/VF ●LASER RANG-S ●MICRO FLEX-C
- LU83/LU20

MSC-B51D5

Size : 1/8DIN W48 x H96mm
 Supply Voltage : 85-265VAC / 95-370VDC
 (Shared power for AC/DC within any voltage as above)
 Sensor Voltage : 24VDC
 Consumption : 5W
 Display : Digital (5 digit, LED)
 Bargraph (51 segment, LED)
 Analogue Output : DC4-20mA, load resistance below 500Ω
 Output Contact : 4SPST (A contact)
 Features : Scaling function, Built-in Linealizer

Configuration Diagram



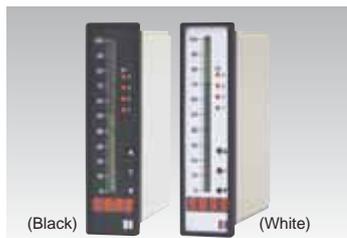
Digital Meter Relay



MR-B51D5

Size : 1/8DIN W48 x H96mm
 Supply Voltage : 85-265VAC / 95-370VDC
 (Shared power for AC/DC within any voltage as above)
 Consumption : 5W
 Display : Digital (5 digit, LED)
 Bargraph (51 segment, LED)
 Input : DC4-20mA
 Output Contact : 2SPST (A contact)
 Features : Scaling function

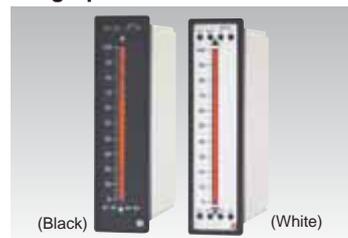
Bargraph Meter Relay



MR-B101D4

Size : 9/64DIN W36 x H144mm
 Supply Voltage : 85-265VAC / 95-370VDC
 (Shared power for AC/DC within any voltage as above)
 Consumption : 5W
 Display : Digital (4 digit, LED)
 Bargraph (101 segment, LED)
 Input : DC4-20mA
 Output Contact : 2SPST (A contact)
 Features : Scaling function

Bargraph Meter



M-B101

Size : 9/64DIN W36 x H144mm
 Supply Voltage : 85-265VAC / 95-370VDC
 (Shared power for AC/DC within any voltage as above)
 Consumption : 5W
 Display : Bargraph (101 segment, LED)
 Input : DC4-20mA
 Output Contact : nil

Digital Meter



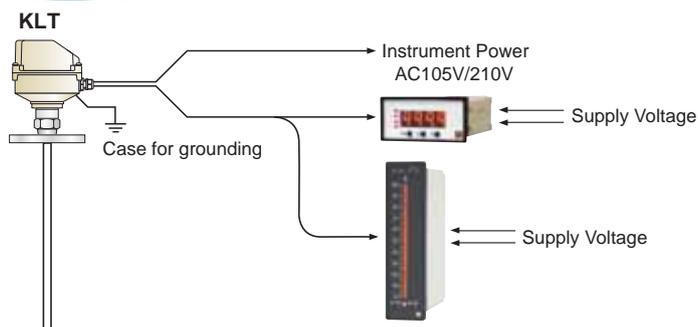
MR-40

Size : 1/8DIN W96 x H48mm
 Supply Voltage : 85-265VAC / 95-370VDC
 (Shared power for AC/DC within any voltage as above)
 Consumption : 5W
 Display : Digital (4 digit, LED)
 Analogue Input : DC4-20mA
 Output Contact : 2SPST (A contact)
 Features : Scaling function

Recommended Adaptive Model

- LASER RANG-L ●REFLEX ●MULTIFLEX ●MINIFLEX
- KSL ●KLI ●KLT ●KLG ●KF-100 ●KF-900

Configuration Diagram

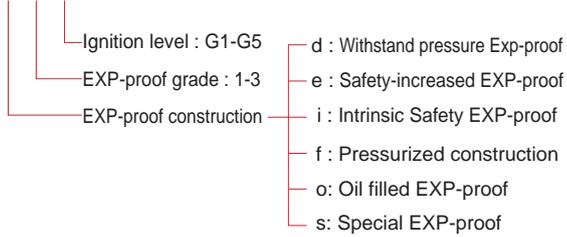


The number of output contact and linealizer can be added dependent upon the model. Please feel free to consult with us.

CERTIFIED EXPLOSION-PROOF INSTRUMENTS: USABLE RANGE OF EXPLOSIVE GAS

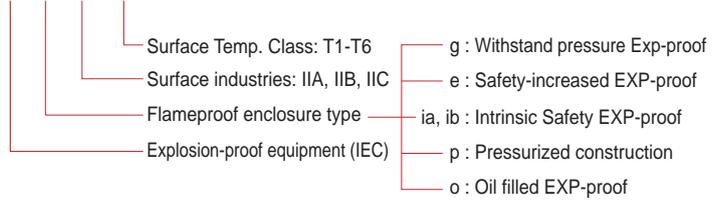
National Standard

d 2 G4



International Standard

Ex d IIB T4



Ignition Temp. of Explosive Gas	Over 450°C	Over 300°C Below 450°C	Over 200°C Below 300°C	Over 135°C Below 200°C	Over 100°C Below 135°C	Over 80°C Below 100°C
Temperature Grade	T1	T2	T3	T4	T5	T6
Ignition Level	G1	G2	G3	G4	G5	G6
Steam Category IIA	Explosion Grade 1	Acetone Ammonia Carbon monoxide Ethane Acetic acid Ethyl acetate Acetonitrile Isopropyl chloride m-xylene Chlorobenzene Hydrogen cyanide Dichloroethylene Trimethyl benzene Toluene Propane Benzene Methanol Methane Acrylic nitrile Ethyl Methyl Ketone O-xylene P-xylene Methyl acetate Ethyl bromide Styrene Benzotrifluoride	Ehtanol Isoamyl acetate Pranolol Butane Acetic anhydride Methyl acrylate Ethyl acrylate Isooctane Isopentane Vinyl chloride Vinyl acetate Propyl acetate Cyclohexane Acetylacetone Isobutanol Epichlorohydrin Isopentyl acetate Butyl acetate Pentyl acetate Diisopropyl ether Dioxane Dichloroetane Thiophene Furan Propanol Propylene	Gasoline Hexane Butyl chloride Octane Cyclohexane Dimethyl ether Tetrahydrofuran Decane Hexanol Heptane Pentanol Pentane Methyl hexane	Acetaldehyde (Di)ethyl ether Dibutyl ether	Ethyl nitrite
Steam Category IIB	Explosion Grade 2	Coal gas Dichloroethylene	Ethylene Propylene oxide Ethylene oxide Butadiene	Isopropylene Hydrogen sulfide		
Steam Category IIC	Explosion Grade 3	Water gas Hydorgen	Acetylene		Carbon bysulfide	Ethyl sulfate

CHEMICAL RESISTANCE TABLE

CHEMICALS	MATERIAL					
	PVC	PA	PP	FEP	PFA	SUS
Acetone	x	x	x	A	A	A
Aniline	x	B	B	A	A	A
Amyl alcohol	B	B	B	A	A	-
Ammonia water (10%)	B	A	A	A	A	A
Ammonia water (28%)	B	A	A	A	A	A
Isopropyl alcohol	B	B	B	A	A	A
Ethyl alcohol (50%)	B	A	B	A	A	A
Ethyl alcohol (95%)	B	B	B	A	A	A
Ethyl glycol	B	A	A	A	A	B
Zinc chloride	A	A	A	A	A	x
Aluminum chloride	A	A	A	A	A	x
Ammonium chloride	A	A	A	A	A	-
Kalium chloride	A	A	A	A	A	x
Calcium chloride	A	A	A	A	A	B
Ferric chloride	A	A	A	A	A	x
Magnesium chloride	A	A	A	A	A	B
Methylene chloride	x	x	x	A	A	B
Hydrochloric acid (10%)	A	A	A	A	A	x
Hydrochloric acid (35%)	A	A	A	A	A	x
Perchloric acid	B	B	B	A	A	x
Hydrogen peroxide (10%)	A	A	A	A	A	B
Hydrogen peroxide (3%)	A	A	A	A	A	A
Potassium permagnate	A	A	A	A	A	B
Formic acid	A	A	A	A	A	x
Xylene	x	x	x	A	A	A
Citric acid	A	A	A	A	A	A
Cresol	A	x	x	A	A	A
Chromic acid (10%)	B	B	B	A	A	x
Chromic acid (50%)		x	x	A	A	x
Chloroform	x	x	x	A	A	A
Acetic acid (50%)	A	A	A	A	A	A
Acetic acid (80%)	A	B	B	A	A	x
Acetic ether	x	x	x	A	A	B
Sodium hypochlorite	A	B	B	A	A	A
Carbon tetrachloride	x	x	x	A	A	B
Dimethylformamide	x	A	A	A	A	A
Oxalic acid	A	A	A	A	A	x

A = Good B = dependent on conditions x = Unusable

CHEMICALS	MATERIAL					
	PVC	PA	PP	FEP	PFA	SUS
Nitric acid (10%)	A	A	A	A	A	x
Nitric acid (50%)	B	A	A	A	A	x
Caustic silver	A	A	A	A	A	B
Sodium nitrate (10%)	A	A	A	A	A	A
Vegetable oil	B	A	A	A	A	A
Sugared water	A	A	A	A	A	A
Sugared water (alkali)	A	A	A	A	A	B
Potassium hydroxide (45%)	A	A	A	A	A	B
Potassium hydroxide (5%)	A	A	A	A	A	B
Potassium hydroxide (1%)	A	A	A	A	A	x
Potassium hydroxide (10%)	A	A	A	A	A	x
Potassium hydroxide (50%)	A	B	B	A	A	x
Stearic acid	A	B	B	A	A	A
Oil	B	x	x	A	A	A
Ammonium carbonate	A	A	A	A	A	A
Sodium carbonate	-	A	A	A	A	A
Kerosene	A	x	x	A	A	A
Toluene	x	x	x	A	A	A
Lactic acid	A	A	A	A	A	A
Picric acid	B	B	B	A	A	x
Phenol (50%)	-	A	A	A	A	A
n-butyl alcohol	A	A	A	A	A	-
Hydrofluoric acid (10%)	A	A	A	A	A	x
Hydrofluoric acid (50%)	A	A	A	A	A	x
Benzene	x	x	x	A	A	A
Boric acid	A	A	A	A	A	A
Formaldehyde (gas)	B	A	A	A	A	B
Methyl alcohol	B	A	A	A	A	A
Methyl ethyl ketone	x	x	x	A	A	A
Sulfuric acid (10%)	A	A	A	A	A	x
Sulfuric acid (50%)	B	A	A	A	A	x
Sulfuric acid (98%)	B	A	A	A	A	x
Ammonium sulfate	A	A	A	A	A	B
Phosphoric acid (10%)	A	A	A	A	A	B
Phosphoric acid (50-80%)	B	A	A	A	A	B
Ammonium phosphate	A	A	A	A	A	B
Sodium phosphate	A	A	A	A	A	-

CHARACTERISTIC TABLE OF FLUOROCARBON RESIN

ABBREVIATION	PTFE (4F)	FEP (6F)	PFA	PVDF (2F)
NAME	POLYTETRA FLUORO ETYLENE	PERFLUOROETHYLENE- PROPYLENE COPOLYMER	TETRAFLUOROETHYLENE- PERFLUOROALKOXY VINYL ETHER COPOLYMER	POLYVINYLIDENE FLUORIDE
Continuous Temp. Limit (°C)	260	200	260	150
Pull Strength (Mpa)	13.7 – 34.3	16.6 – 21.6	27.5 – 29.4	24.5 – 50.0
Affected by weak acid	No	No	No	No
Affected by strong acid	No	No	No	Corroded by fuming sulfuric acid
Affected by weak alkali	No	No	No	No
Affected by strong alkali	No	No	No	No
Affected by organic solvent	No	No	No	Almost resistant
Affected by direct sunlight	No	No	No	No
Application-Features	Anti-corrosion materials for chemical-plant fixtures, non-adhesive applications, non-greased bearings and electric insulation of jet aircrafts.		Machinery parts requiring anti-corrosion, intensity and transparency.	Anti-corrosion and electric insulating materials requiring flammability
Models applied	<ul style="list-style-type: none"> Insulator for Capacitance model Insulator for Dust Monitor 	<ul style="list-style-type: none"> Teflon-tube for Capacitance model (Standard: Max 120°C) 	<ul style="list-style-type: none"> Teflon-tube for Capacitance model (Special: Max 150°C) Wire-tube for Capacitance model 	<ul style="list-style-type: none"> Transmitting device for Ultrasonic Transmitter

*The above characteristic table shows the features of fluorocarbon resin alone. When it is incorporated into a product, its heat resistant temperature and strength may be varied so that the performance level may be maintained

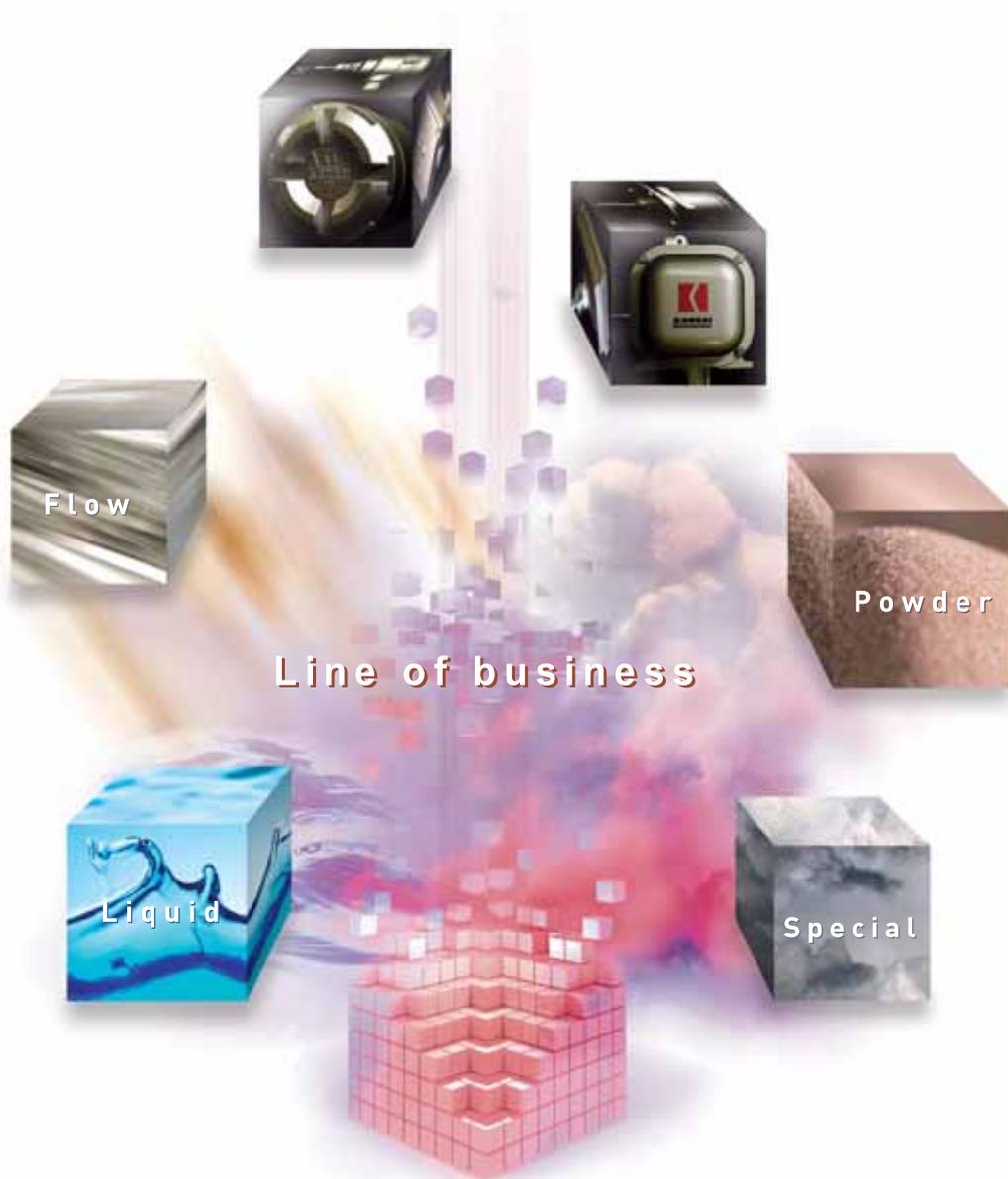
TABLE OF RECOMMENDED SENSITIVITY AND SPECIFIC INDUCTIVE CAPACITY FOR CAPACITANCE TYPE LEVEL SWITCH

	Name of Object	SIC	S
A	Acrylic Rubber	4	1
	Acetate	3.2~7.0	1
	Acetic acid	6.1~6.7	1
	Acetic anhydride	22	2
	Acetum,	38	2
	Acrylic Resin	2.7~4.5	1
	Alcohol	16~31	2
	Aluminum fluoride	2.2	1
	Amber	2.8~2.9	1
	Aminoalkyl Resin	3.9~4.2	1
	Ammonia	15~25	2
	Amyl ether	3.1	1
	Aniline	6.9	1
	Arboreous cotton	1.3~1.4	1
	Asbestos	3.0~3.6	1
Asbestos	3.0~3.5	1	
Asphalt	2.5~3.2	1	
B	Bakelite	3.5~4.5	1
	Balm grounds	3.1	1
	Barley bran	1.8	1
	Barley flour	3.0~4.0	1
	Barley grain	3.0~4.0	1
	Barley hull	1.5	1
	Beeswax	2.5~2.9	1
	Benzene	2.3	1
	Benzine	2.3	1
	Benzyl alcohol	13	2
	Bone dust	5.0~6.0	1
	Borosilicic acid glass	4.5~6.2	1
	Bran	1.4~2.0	1
	Butanol	16~17	2
	Butyl alcohol	11	2
Butyl chloride	7.4	1	
Butylaldehyde	13	2	
Butylnitryl	20	2	
C	Calcite	8.3	1
	Calcium	3	1
	Calcium Carbonate	2.0~3.5	1
	Calcium hydroxide	2.0~3.5	1
	Calcium oxide	12	2
	Calcium phosphate	1.6~1.9	1
	Calcium sulfate	2.5~6.0	1
	Carbon bisulfide	2.6	1
	Carbon dioxide	1.6	1
	Casein resin	6.0~7.0	1
	Casting sand	3.4~3.5	1
	Cellophane	3.2~6.4	1
	Cellulose	3.2~7.5	1
	Cellulose acetate	3.2~7.0	1
	Cement powder	5.0~10	1
Ceramic	4.0~7.0	1	
Cereal	3.0~8.0	1	
Charcoal	1.2~1.8	1	
CHCH3	12	2	
Chloride of lime	1.8~2.0	1	
Chlorobenzene	5.5~6.3	1	
Chloroform	4.8	1	
Chlorotoluene	4.0~4.5	1	
Chocolate	3.0~4.0	1	
Chrome	12	2	
Chromite	4.0~4.2	1	
Clay	1.8~2.8	1	
Coal	4	1	
Cocoa grounds	2.5~3.5	1	
Coffee grounds	2.4~2.6	1	
Compound	3.6	1	
Copper oxide	18	2	
Corn	5.0~10	1	
Corn husk	2.3~2.6	1	

	Name of Object	SIC	S	
	Cotton-seed oil	3.1	1	
	Cresol	9.0~11	2	
	Crude oil	2.48	1	
	Crystal	3.5~4.7	1	
	Curry powder	2.6	1	
	Cyclohexane	19	2	
D	Decanol	8.1	1	
	DEP dimethy	4.5~5.6	1	
	Diallyl phthalein resin	3.3~6.0	1	
	Diamond	2.2	1	
	Dichloroethylene	4.6	1	
	Diesel oil	1.8	1	
	Diethyl ether	4.3	1	
	Dolomite	8	1	
E	Epoxy resin	2.5~6.0	1	
	Ethanol	24	2	
	Ethyl acetate	6.0~6.4	1	
	Ethyl ether	3.9~4.3	1	
	Ethyl iodide	7.8	1	
	Ethyl toluene	2.2	1	
	Ethylene dichloride	11~17	2	
	Ethylene glycol	37	2	
	Ethylene iodide	3.4	1	
	Ethylene oxide	4.0~5.0	1	
	Ethylene resin	2.2~2.3	1	
	Ethylene tetrafluoride	1.9~2.0	1	
F	Feeding stuff	38	2	
	Feldspar porcelain	5.0~7.0	1	
	Ferric oxide	14	2	
	Ferromanganese	5.0~5.2	1	
	Fiber	2.5~7.5	1	
	Flour	2.5~3.0	1	
	Fluid margarine	2.8~3.2	1	
	Fluorine rubber	6.8~8.0	1	
	Fluorite	6.8	1	
	Fly ash	1.5~1.7	1	
	Formaline	23	2	
	Formamido	109	2	
	Formic acid	58	2	
	Freon	2.2	1	
G	Gasoline	2.0~2.2	1	
	Glass	3.7	1	
	Glass (granulated)	6.0~7.0	1	
	Glass-silicon board	3.5~4.2	1	
	Glycerin	47~68	2	
	Glycol	35~40	2	
	Granulated gelatine	2.6~2.7	1	
	Granulated sugar	1.5~2.2	1	
	Graphite	12~15	2	
	Gravel	5.4~5.6	1	
	Grout	3.0~5.0	1	
	Gum	2.7~2.9	1	
H	Heavy oil	3	1	
	Helium	1.1	1	
	Heptanal	13	2	
	Heptane	1.9~2.0	1	
	Hexane	5.8~6.3	1	
	Hexanol	13	2	
	Hydrochloric acid 100%	4.0-12	1	
	Hydrofluoric acid	11~17	2	
	I	Ink	2.5	1
		Iodine	11	2
Isobutyl alcohol		18~40	2	
Isobutyl amine		4.5	1	
Ivory		6.9	1	
K	Kerosene	1.8	1	
	Lactonitrile	38	2	
L	Lead carbonate	18	2	
	Lead glass	7.0~10	1	

SIC - Specific Inductive Capacity S - Sensitivity

*Please be advised that recommended SENSITIVITY depends on the conditions of the object to be measured, environments/temperature, and the shape of the electrode or its mounted conditions.



- 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
- 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
- Ultrasonic Flow meter

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