

REFLEX/SCANFLEX MULTIFLEX MINIFLEX LR MICROFLEX-C

ULTRASONIC LEVEL INDICATOR



TYPICAL NON-CONTACT LEVEL METER ! OUTSTANDING SOFWARE MAKES HIGHLY STABLE AND RELIABLE. A WIDE RANGE OF APPLICATIONS FROM SOLIDS TOLIQUIDS , MEASUREMENT IN LONGER RANGE WITH MULTI-POINT SCANNING SYSTEM

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SENSOR TECHNOLOGY

CAT. No. UMH-034-0805J

KANSAI Automation Co., Ltd.

ULTRASONIC LEVEL INDICATOR

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

From Long-range Measurement to Multi-point Scanning, Excellent Ultrasonic Level Meter!



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VERSATILE

4.51

1.50

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TYPE

1

Multi-channel non-contact ultrasonic level controller for liquids, slurries & solids from 1 up to 10 points of level measurement. It can store data and output orderly or arbitrarily. Its measuring range up to 50 meters.

month

MEASUREMENT & CONTROL

TYPE 2

An analogue output and up to two relays per point can be achieved by the addition of SA-10 analogue and SR-10 relay cards to the system. FAST

Scanning of ten points can be achieved in under 30 seconds on liquid applications. Scan times are programmable but dependent on the application.

TYPE 3

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TYPE

4





Accuracy : $\pm\,0.25\%$ (ambient temp. 20) Resolution: 2mm or 0.1%FS whichever greater Blanking : Programmable (min 0.5m dependent on transducer) Transducers: RVY /RYT /RWV /RWT / RXM19 series Power Supply: 110/230VAC ±10% 50/60Hz 12VA selectable or 24VDC +25% - 10% 9W Relay output: 55PDT 250VAC 8A 30VDC 8A (Resistance load) Analogue output: 4-20/20-4mA 750 Serial output: RS232/ RS485 : Graphics LCD module Display (120 x 32 dot) 5 red LED's for relay status Ambient Temp : -40 - +70 Enclosure : IP65 Polycarbonate Dimensions: 240 x 160 x 90mm : 1.75kg Weiaht

REDUCING COST PER POINT

Reflex, enables to scan up to 10 separate points of level, thus reducing the cost per point for each additional tank or silo monitored. SM-10 can remotely be added.

RS232 port allows transfer of level data for all 10 points, and provides the means for fast commissioning when using Vision

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TYPE

10

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*The min. dead band and the max.range are varied by the operating temperature and environments.

2

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APPLICATION Measure Level Measure Empty distance Measure Volume Measure Differential level Measure Open channel flow Pump control

EExm II T6

MULTIFLEX

Providing all the functionality of level control ranging from solids to liquids whatever the conditions may be.

FEATURES

It can operate in dirty, dusty environments, and a high degree of resolution and functionality enables it to apply to diversified applications.

It can be protected from any unauthorized access if a password is used. It maintains the high level of security.

Linearisation for 7 different vessel shapes held in memory, its volume conversion is easier.

It can accept power supplies of either DC or AC volt.

There is no need for separate programmers or computers to set up but all you need is to set up necessary parameters using the keypad.

DIVERSITY

In applications on solids, it can operate in adverse environments such as dirt and dust. For liquids, it can achieve a high-degree of resolution and functionality. It can satisfy the requirements necessary for liquid and solid applications in one instrument, in either a panel or wall mount enclosure. SECURITY

It can be protected from any unauthorized access if a password is used. MULTIPLE POWER SUPPLIES

It can accept power supplies of either 110 or 230 volt AC. A separate 24 volt DC input is provided on every unit for those who want to operate on a safe DC voltage or provide back-up in case of power failure. INTEGRAL CONSOLE

Neither complex codes or programming nor separate programmers or computers to set up are required. All you need is to set up necessary parameters using the keypad. VOLUME CONVERSION

Linearisation for 7 different vessel shapes is held in memory



MULTIFLEX CONTROLLER Wall mount

Accuracy : ±0.25% (ambient temp. 20) Resolution: 2mm or 0.1%FS whichever greater Blanking : Programmable (min 0.5m dependent on transducer) Transducers: RYV /RYT /RWV /RWT Power Supply: 110/230VAC ±10% 50/60Hz 12VA selectable or 24VbC +25% - 10% 9W Relay output: 5SPDT 250VAC 8A 30VDC 8A (Resistance load) Analogue output: 4-20/20-4mA 750 Serial output: R522/ R5485 Display : 4 digit 12mm LCD 5 red LED 's for relay status Ambient Temp : -40 - +70 Enclosure : IP85 Polycarbonate Dimensions: 240 x 160 x 90mm Weight : 1.75kg



Accuracy : ±0.25% (ambient temp. 20) Resolution: 2mm or 0.1%FS whichever greater Blanking : Programmable (min 0.5m dependent on transducer) Transducers: RYV /RWW /RXM Power Supply: 110/230VAC ± 10% 50/60Hz 12VA selectable or 24VDC +25% - 10% 9W Relay output: 5SPDT 250VAC 8A 30VDC 8A (Resistance load) Analogue output: 4-20/20-4mA 750 Serial output: RS232/ RS485 Display : 4 digit 12mm LCD Ambient Temp : -40 - +70 Enclosure : IP65 Polycarbonate Dimensions: 144 x 96 x 140mm Weight : 1.75kg

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MINIFLEX CONTROLLER



MINIFLEX LR For Liquids **Compact but Highly Functional User Friendly**

APPLICATION Measure Level Measure Empty distance Measure Volume Measure Differential level Pump control

Accuracy : $\pm 0.25\%$ (ambient temp. 20) Resolution: 2mm or 0.1%FS whichever greater Resolution: 2mm or 0.1%FS whichever Blanking : Fully Programmable Transducers: RYV /RYT /RWV /RWT Power Supply: 95/110/230VAC ± 10% 50/60Hz 12VA selectable or 24VDC +25% - 10% 9W Relay output: 3SPDT 250VAC 8A 30VDC (Resistance load) Analogue output: 4-20/20-4mA 750 Display : Multiline Ambient Tenn : -20. - 470 Display : Multiline Ambient Temp : --20 - +70 Enclosure : IP65 Polycarbonate Dimensions: 185 x 213 x 119.5mm : 1.55kg Weight



Unused

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Integral Amplifier • Two-wire Loop Powered Simple to Calibrate and Use Empty Distance and Span can be entered TWO WIRE ULTRASONIC LEVEL TRANSMITTER

MICROFLEX-C For Liquids

FEATURES

The setup is simple as you set up with push buttons while seeing the LCD.

You can select to indicate LCD either by meter, feet or inch The transducer material consisting of PVDF that is corrosion resistant, it can have a wide range of applications.

It has a False Echo Rejection function that enables the instrument to identify two fixed obstructions, memorize their position and ignore them during the measuring process. Principle of Operation An ultrasonic pulse is emitted from a sensor down towards the media and is reflected back from the surface. The time it takes to travel from/to the sensor is proportional to the distance traveled.

OUTLINE DIMENSIONS



Accuracy : $\pm 5mm$ (<1m) / $\pm 0.5\%FS$ (>1m) **Resolution: 1mm** Max. range: 8m Beam angle: 12° Min. dead band: 0.3m Power Supply: 12-30VDC(two wire loop powered) Analogue output: DC4-20mA 750 Serial output: ---Display : digital LCD Ambient Temp : -40 - +70 : Glass filled nylon Housing : PVDF Wet side Protection : IP67 Weight : 850g



MOUNTING GUIDELINES



HYCONTROL VISION SYSTEM

REFLEX/SCANFLEX & MULTIFLEX can be connected to PC with serial outputs. A dedicated software (option) can be used to allow all echoes of ultrasonic waves to be viewed in trend analysis, thus enabling to make a higher degree of setup.



Please inform us of the following when referring and ordering.

0	Object to be measured	[]
0	Туре	[Powder •	Solids•	Lump	• Liquids]
0	Shape	I]
0	Repose angle	[De	earee]
0	Hopper height	[m]
0	Cone height	[m]
0	Measurable range	[m]
0	Hopper diameter	[m]
0	Umbo	[Yes	1	No]
0	Agitator	[Yes	1	No]
0	Means of carriage	[]
Ø	Mounting position	[From slot From tank w	(nall () m) m]
⊕	Slot position	[Center	/ From o	ænter	() m]
0	Temp in a tank	[()℃)~(J°(]
0	Ambient Temp. Sens	rol	llnit	(3°(3°(~(~(ວ(ວ(]
0	Pressure in a tank	[Yes (KPa) /	None]
Ð	Moisture	[()9	6~()%]



@	Mounting standar]			
1	Nozzle height	Ε				mm]
20	Aiming kit	[Yes ()/	No]
0	Corrosion	[Yes	1	No]
0	Dust	[Yes	1	No]

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

KANSAI Automation Co., Ltd.

Line of business

Rotary Paddle Type Level Switch Vibration Type Level Switch Swing Type 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 Mater

* The specifications herein may be subject to change without advance notice

* Please be sure to read USER'S GUIDE, Installation & Operation Instructions when using the instrument.

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