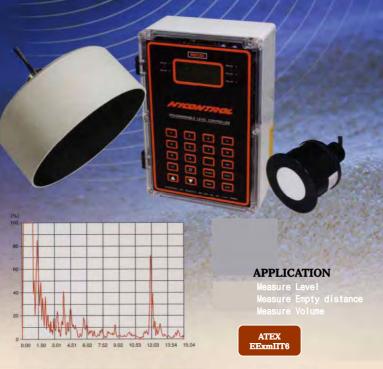
REFLEX/SCANFLEX MULTIFLEX MINIFLEX LR MICROFLEX-C

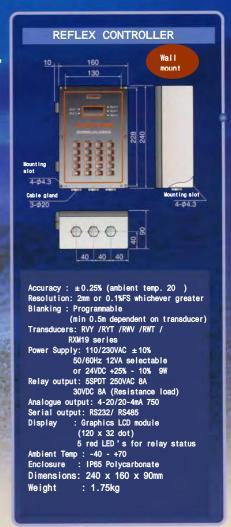
ULTRASONIC LEVEL INDICATOR



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

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





VERSATILE

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.

MEASUREMENT & CONTROL

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.

HYCONTROL Multi-control System



REDUCING COST PER POINT

The Multiplexor SM-10, added to the 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.

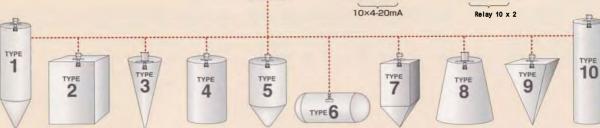
SERIAL COMMUNICATION

RS485

module SA 10

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

> Relay module SR10



REFLEX TRANSDUCER

RYV15 RYT15 (Inbuilt Temp Sensor)



Body material: PVDF Face material: Epoxy Frequency : 41.5KHz Beam angle: 12° Min dead band: 0.3m Max range liquids: 20m Max range solids: 10m Ambient temp: -40 - +90 Haz. area: EExm IIT6 Protection: IP68 Mounting: M20 x P1.5 Weight: 2.0kg

RWV15 RWT15 (Inbuilt Temp Sensor)



Body material: PVDF Face material: PVDF Frequency: 41.5KHz Beam angle: 12 ° Min dead band: 0.3m Max range liquids: 20m Max range solids: 10m Ambient temp: -40 - +90 Haz. area: EExm IIT6 Protection: IP68 Mounting: M20 x P1.5 Weight: 2.0kg

RYVF /RWVF (Inbuilt Temp Sensor) Body material: PVDF RVTF /RWTF



Face material: Epoxy /PVDF Frequency: 41.5KHz Beam angle: 12 ° Min dead band: 0.3m Max range liquids: 20m Max range solids: 10m Ambient temp: -40 - +90 Haz. area: EExm IIT6 Protection: IP68 Mounting: M20 x P1.5 Weight: varied by flange size

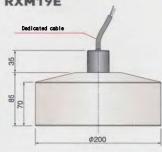
Flange(plastic)

4*/3* ASME, DN80/100

RXM19 Dedicated cable Ф200

Body material: Polypropylene Face material: Polyethylene Frequency: 19KHz Beam angle: 8 ° Min dead band: 0.75m Max range liquids: 30m Max range solids: 20m Ambient temp: -20 - +60 Haz. area: No Protection: IP65 Mounting: M20 x P1.5 Weight: 2.8kg

RXM19E



Body material: Polypropylene Face material: Polyethylene Frequency: 17KHz Beam angle: 5 ° Min dead band: 1.0m Max range liquids: 50m Max range solids: 35m Ambient temp: -20 - +60 Haz. area: No Protection: IP65 Mounting: M20 x P1.5 Weight: 4.8kg

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

OPTION Mounting Flange Dedicated cable 10m 26 M32×1.5 130 82 φ92 Mounting Flange Terminal Box φ110 G 3/4 124 72 Ν-ΦΗ PCD ΦD 130 Φ92 Terminal Box Mounting Flange Aimina kit Φ195 Φ165 about 210 Ν-ΦΗ PCD . ΦD 20° 20 φ200 Adjustable angle

ISOLATION KIT

Kit to prevent oscillation loss of ultrasonic wave(standard) M20 P1.5 20 ON KIT OF Isolation kit

At tached

Unused



APPLICATION

Measure Level Measure Empty distance sure Differential level sure Open channel Pump control

ATEX EExm II T6

MULTIFLEX

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

FEATURES

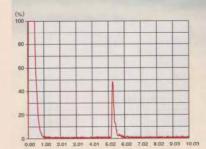
It can operate in dirty, dusty environments, and a high degree of resolution and functionality enables it to apply to diversified applications.

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

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 kevpad.



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

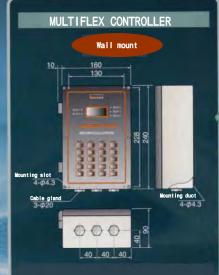
It can be protected from any unauthorized access if a password is used. MULTIPLE POWER SUPPLIES

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



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: $110/230VAC \pm 10\%$

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

5 red LED's for relay status

Ambient Temp : -40 - +70 Enclosure : IP65 Polycarbonate Dimensions: 240 x 160 x 90mm Weight : 1.75kg

Panel mount



Accuracy: $\pm 0.25\%$ (ambient temp. 20) Resolution: 2mm or 0.1%FS whichever greater

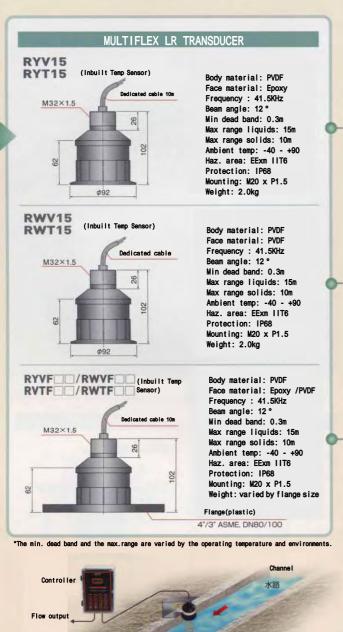
Blanking: Programmable (min 0.5m dependent on transducer)

Transducers: RYV /RWV /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 12m Ambient Temp : -40 - +70 : 4 digit 12mm LCD Enclosure : IP65 Polycarbonate Dimensions: 144 x 96 x 140mm

Weight : 1.75kg



Weir

Controller

Output of differential

Unstream sensor

Weight: 2.0kg

t Temp

Body material: PVDF
Face material: Epoxy /PVDF
Frequency: 41.5KHz
Beam angle: 12°
Min dead band: 0.3m
Max range solids: 10m
Ambient temp: -40 - +90
Haz. area: EExm IIT6
Protection: IP68
Mounting: M20 x P1.5
Weight: varied by flange size
Flange(plastic)

4'/3' ASME_DNBO/100

APPLICATION

Measuring Flow at Open Channel Weir
Build a weir and measure the upstream level. It can come up with flow measurement in setting up the inbuilt functionality of Weir Flow Conversion.

Dedicated cable M32×1.5 130 Φ92 Mounting flange Terminal box Φ110 G 3/4 124 72 N-ØH PCD ΦD 130 Φ92 Terminal box Mounting flange Aiming kit ϕ_{195} Φ165 20 about 210 N-ØH PCD 140 about Φ92 - 20° 20 Adjustable angle ISOLATION KIT Kit to prevent oscillation loss of ultrasonic wave(standard) M20 P1.5 20

OPTION

Mounting flange



Attached

Unused

Measuring Differential Level

APPLICATION 2

The mechanism is that each sensor is installed at upper and lower locations of the dust extractor and a controller measures differential level. The device is used for the automatic operation of a dust extractor and can be applied to floodcate



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

Weir flow

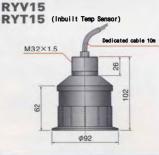
ATEX EExm II T6 Accuracy: $\pm 0.25\%$ (ambient temp. 20) Resolution: 2mm or 0.1%FS whichever greater

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 +25V - 10% 9W Relay output: 3SPDT 250VAC 8A 30VDC (Resistance load) Analogue output: 4-20/20-4mA 750 Display : Multiline

Display : Multiline
Ambient Temp : --20 - +70
Enclosure : IP65 Polycarbonate Dimensions: 185 x 213 x 119.5mm

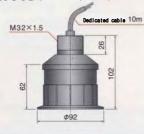
: 1.55kg Weight

MINIFLEX LR TRANSDUCER



Body material: PVDF Face material: Epoxy Frequency: 41.5KHz Beam angle: 12 ° Min dead band: 0.3m Max range liquids: 10m Max range solids: 5m Ambient temp: -40 - +90 Haz. area: EExm IIT6 Protection: IP68 Mounting: M20 x P1.5 Weight: 2.0kg

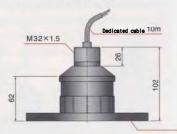
RWV15 RWT15 (Inbuilt Temp Sensor)



Face material: PVDF Frequency: 41.5KHz Beam angle: 12 ° Min dead band: 0.3m Max range liquids: 10m Max range solids: 5m Ambient temp: -40 - +90 Haz. area: EExm IIT6 Protection: IP68 Mounting: M20 x P1.5 Weight: 2.0kg

Body material: PVDF

RYVF /RWVF (Inbuilt Temp Sensor)



Body material: PVDF Face material: Epoxy /PVDF Frequency: 41.5KHz Beam angle: 12° Min dead band: 0.3m Max range liquids: 10m Max range solids: 5m Ambient temp: -40 - +90 Haz. area: EExm IIT6 Protection: IP68 Mounting: M20 x P1.5 Weight: varied by flange size

Flange(plastic)

4"/3" ASME, DN80/100

OPTION Mounting flange 26 M32×1.5 Terminal box Mounting flange G 3/4 24 N-PH PCD Φ92

ISOLATION KIT

Kit to prevent oscillation loss of ultrasonic wave



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

FEATURES

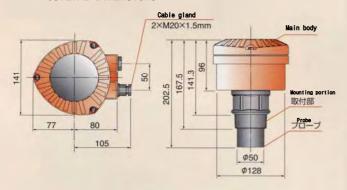
The setup is simple as you set up with push buttons while seeing the LCD.

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 : ± 5 mm (<1m) / ± 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: ---

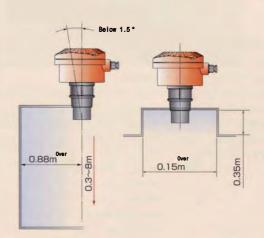
Display : digital LCD
Ambient Temp : -40 - +70
Housing : Glass filled nylon

Wet side : PVDF Protection : IP67 Weight : 850g



INTERIOR

MOUNTING GUIDELINES



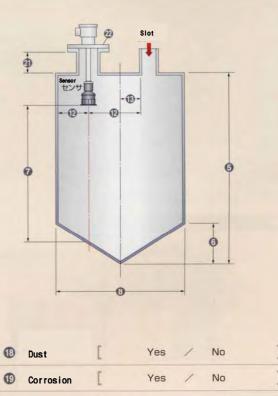
HYCONTROL VISION SYSTEM

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	I	Powder	Solids •	Lump •	Liquids]
0	Shape	[]
0	Repose angle	[Dec	ree]
6	Hopper height	[m]
0	Cone height	[m]
0	Measurable range	[m]
8	Hopper diameter	[m]
9	Umbo	[Yes	1	No		1
0	Agitator	[Yes	1	No]
0	Means of carriage	[]
ø	Mounting position		From slot	(mail () m) m]
1	Slot position	[Center	/ From o	enter	() m	1
0	Temp in a tank	[()°C	~()℃]
•	Ambient Temp. Sens Cont		Unit	()°C-		ο(ο(]
10	Pressure in a tank	I	Yes (KPa) /	None]
•	Moisture	[()%	5~()%]



Line of business

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

- * 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.

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

Nozzle height

KANSAI Automation Co., Ltd.

Yes (

Headquarters: TEL. 81-6-6312-2071 FAX. 81-6-6314-0848

Mounting standard Flange size

URL: http://www.kansai-automation.co.jp e-mail: info@kansai-automation.co.jp

Aiming kit

Headquarters: 2-14, Togano-cho, Kita-ku, Osaka 530-0056. Japan Tel 81-6-6312-2071. Fax 81-6-6314-0848.

Tokyo Branch: 1-29-6, Hamamatsu-cho, Minato-ku, Tokyo 105-0013, Japan Tel 81-3-5777-6931. Fax 81-3-5777-7-8933.

Nagoya Office: 3-31-27, Uchiyama, Chigusa-ku, Nagoya 464-0075, Japan Tel 81-52-741-2432, Fax 81-52-741-1588

Kyushu Office: 1-2-39, Asano, Kokura Kita-ku, Kitakyushu 802-0001, Japan Tel 81-93-511-4741 Fax 81-93-511-4580



mm

代理店 /Agent





SCIGATE AUTOMATION (S) PTE LTD

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