

ULTRASONIC LEVEL MADE EASY

RANGE- finder



GPC

www.gpc.co.za

Marketed By:



D. K. INSTRUMENTS PVT. LTD.

An ISO 9001:2008 Certified Co.

76/2, Selimpur Road, Dhakuria, Kolkata - 700 031

Ph. No.: 91-33-2415 1310 / 2405 0944, Fax: 91-33-2415 2311

Email: dkinst@vsnl.net, info@dkinstruments.com

Web Site: <http://www.dkinstruments.com>

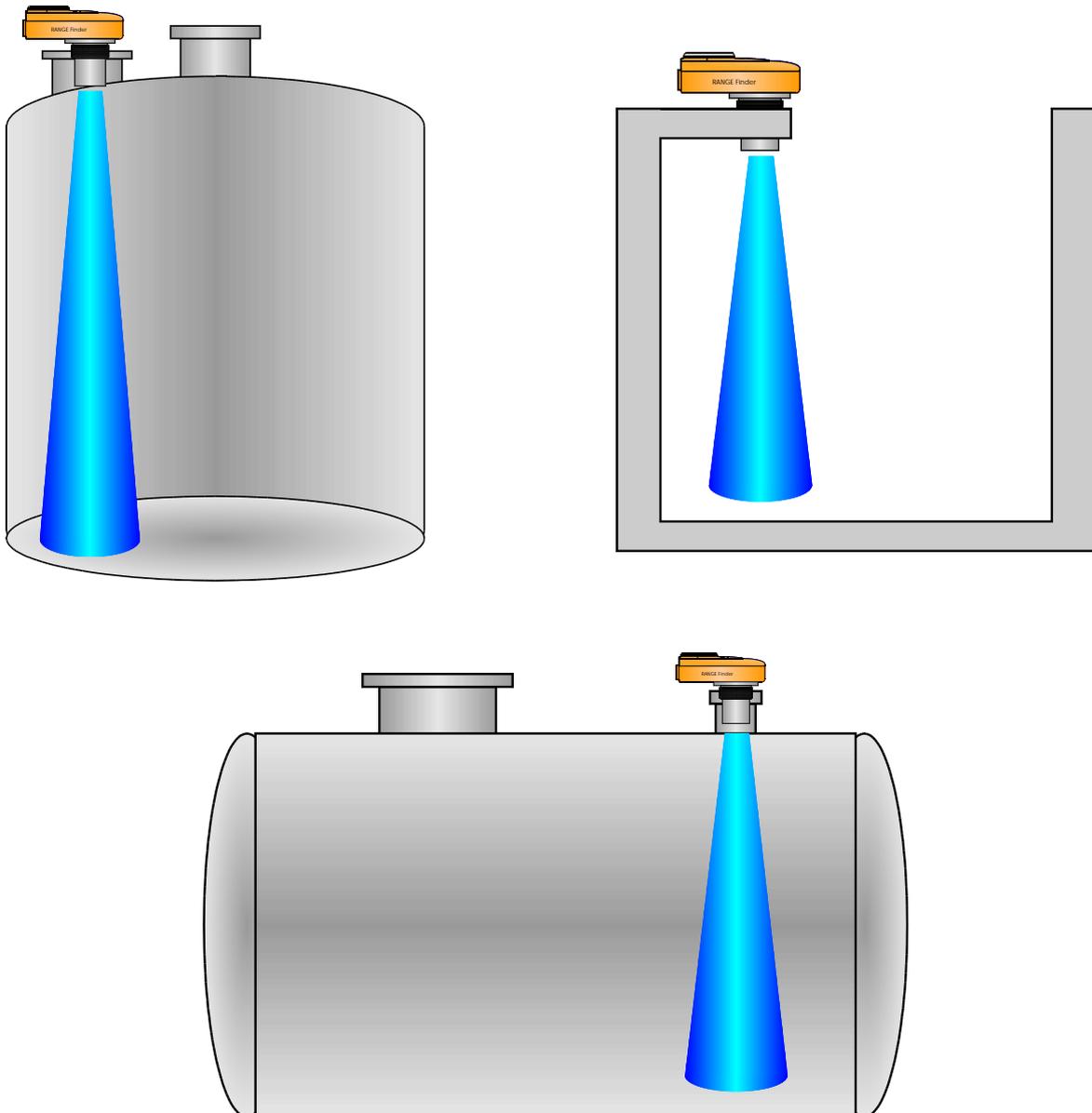
NEW 2 WIRE ULTRASONIC PROBES - THE FASTEST IN THE WORLD.

GPC has introduced a family of 2 wire ultrasonic probes. The probes cover distances from 200mm to 10m with 2"NPT, mountings. The probes can take up to 16 shots per second, making them the fastest in the industry. Speed is especially important in applications involving fast filling tanks.

New, high efficiency, ultrasonic transducers with very narrow beams and wide frequency bandwidth work in any conditions over a wide temperature range. They are insensitive to mountings and with help of the transceiver and smart signal processing, they eliminate unwanted echoes from tank walls, standpipes and any other buildups. The transducers provide self-cleaning operation, so their faces eliminate any buildup and condensation.

The probes require a power supply of between 12 and 28 VDC and provide an output of 4 to 20 mA. Their maximum power consumption is 750 mW.

When the top of a tank is a dome, Rf2 sensor must be mounted 2/3 of distance between center and wall.



Continuous 2 Wire Ultrasonic Level Transmitter



FEATURES

- * Simple push-button calibration
- * Output 4-20mA or 20-4mA
- * Built in temperature compensation
- * Compact size for easy mounting

APPLICATIONS

- * Food and Beverages
- * Water / Wastewater
- * Chemicals
- * Oils
- * Solids ranges Requires 3 wire sensors



CALIBRATION - 4-20mA or 20-4mA

Full: (Set near target)

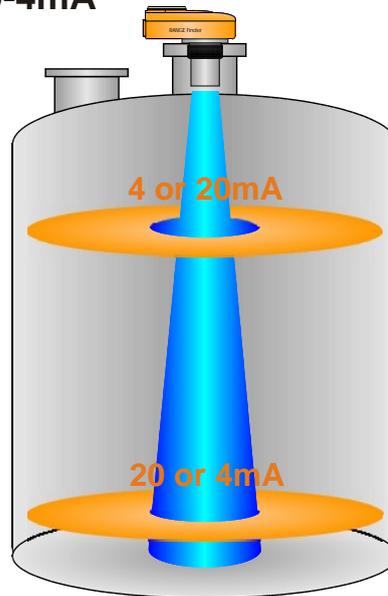
1. Calibration mode LED color is blinking green.
2. Push button and hold until LED turns Orange (20mA).
Or push button and hold until LED turns Red (4mA).
3. Release button, observe LED flashes to acknowledge the calibration.

Empty: (Set far target)

1. Calibration mode LED color is blinking green.
2. Push button and hold until LED turns Red (4mA).
Or push button and hold until LED turns Orange (20mA).
3. Release button, observe LED flashes to acknowledge the calibration.

Loss of Echo - 22mA or 3.5mA

1. To chose 22mA press and hold button until the LED goes off - 2 flashes.
2. To chose 3.5mA press and hold button until the LED goes off - 1 flash.



SPECIFICATIONS

MECHANICAL

- * 2 x PG9 gland entry
- * ABS Enclosure
- * IP 67 Protection

ENVIRONMENTAL

- * Temp - 40 to + 60 Deg C
- * Pressure 1 - 10 bar
- * Approvals: Intrinsic Pending
- * CE

OPERATIONAL

- * Accuracy: +- 0.25% of full span
- * Temperature comp. In transducer
- * Beam Angle: 10 - 12 deg. At-3db
- * Loss of Echo: (30 sec) 22mA or 3.5mA

ELECTRICAL

- * Power: 12 to 28Vdc
- * 0.025 A max @24 Vdc
- * Output: 4-20mA / 20-4mA
6uA Resolution

CALIBRATION

- * Push button

ORDERING INFORMATION

MODEL	RANGE	RESOLUTION	MOUNTING	FREQUENCY
RF2-4-U	0.2 - 4m	1.5mm	2" NPT	80Khz
RF2-6-U	0.25 - 6m	2.2mm	2" NPT	70 Khz
RF2-10-U	0.3 - 10m	3.7mm	2" NPT	52 Khz

Marketed By: **D. K. Instruments Pvt. Ltd.** 76/2, Selimpur Road, Kolkata – 700 031

Tel: 91-33-2415 1310, Fax: +91-33-2415 2311, Email: dkinst@vsnl.net, Url: <http://www.dk instruments.com>

INSTRUCTION MANUAL FOR RF2 ULTRASONIC SENSORS



TYPICAL INSTALLATION

- * Direct mounting Ultrasonic sensor.
- * Simply thread sensor directly into METAL or PLASTIC nozzle.

CALIBRATION - 4-20mA or 20-4mA

Full: (Set near target)

1. Calibration mode LED color is blinking green.
2. Push button and hold until LED turns Orange (20mA).
Or push button and hold until LED turns Red (4mA).
3. Release button, observe LED flashes to acknowledge the calibration.

Empty: (Set far target)

1. Calibration mode LED color is blinking green.
2. Push button and hold until LED turns Red (4mA).
Or push button and hold until LED turns Orange (20mA).
3. Release button, observe LED flashes to acknowledge the calibration.

Loss of Echo - 22mA or 3.5mA

1. To chose 22mA press and hold button until the LED goes off - 2 flashes.
2. To chose 3.5mA press and hold button until the LED goes off - 1 flash.

OPERATION: An Ultrasonic pulse is transmitted from the RF2 sensor. The pulse travels to the surface being monitored and is reflected off the surface back to the sensor. The time of flight is divided by 2 and converted to an output signal directly proportional to the material level.

RF2 Wiring Connection

