

QUICK INSTALLATION GUIDE

KIT CONTENTS

- Remote reading device ZERO complete with battery and mounting bracket
- Quick installation guide



ASSEMBLY TOOLS

For installation you need:

- cross-head screwdriver
- flat head screwdriver

POSITIONING AND FIXING

The device must be properly fastened in vertical position with the level sensor cable placed downwards. The device cannot be covered by snow or water.

In the installation site a good GSM network signal of the SIM card's mobile operator used in the device must be present.

INSTALLATION RECOMMENDATIONS AND SAFETY

Install the device by checking all the electrical characteristics in accordance with the ATEX directive. Shitek Technology Srl does not assume responsibility for inappropriate or incorrect use of the device and / or not meet the safety requirements indicated.

The device is suitable for operation in Hazardous Area (Zone 0) according to the label:

II 1 G Ex ia IIB T2 Ga

Operating temperature range: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

HOW TO SELECT THE ROCHESTER HALL EFFECT TRANSMITTERS

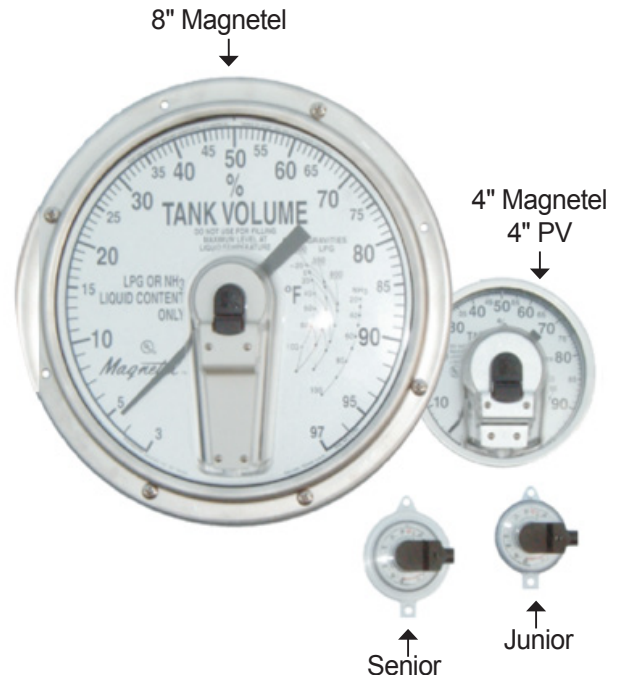
IRZ can be used with 3.3VDC transmitters from Rochester, follow this table to choose the transmitter:

Description	Model	Sensor associated (**)
8" Magnetel	6320S0307bc	5AFYS02086 (2)
4" Magnetel	6320S3307bc	5AFYS02086 (2)
4" PV	6320S4307bE	5AFYS02086 (2)
Junior	6320S8307bE	5992S02713 (2)
Senior	6320S9307bE	5ACN02714 (2)
Junior	6320S8407bE	5961S02714 (1)

b Cable Length (1 or 2 digit)
c Magnetel Mounting Type

I-READ ZERO

Installation with Rochester® hall effect transmitters



PROCEDURE TO INSTALL AND FIX TO THE TANK

1. Unscrew the IRZ (operation to be performed in a safe area), remove the printed circuit board from the plastic base and place it on a panel of non-conductive material (eg. Wood). Pass the sensor cable through the cable glands prepared and connect the wires as shown in Table 1.

Caution: When inserting wires into the terminal it is important that the printed circuit board is supported on the panel of non-conductive material and that it is removed from the plastic base otherwise it is impressed with the twists that may damage it.



PIN	FUNCTION	ROCHESTER® TRANSMITTER
1	GND	BROWN
2	SIGNAL	GREEN
3	SENSOR POWER SUPPLY	WHITE

Table1: Sensor wiring

2. Fix the PCB in the plastic base, if it is necessary shorten the length of the sensor wire between the cable gland and the IRZ, tighten the cable gland according to specification of DIN standard cable glands PG7.

3. Connect the battery to the appropriate terminal (see above image).

4. Screw the cap and pay attention to the the battery pack's cable and to the sensor's cable.
Check the correctly tightening of the cap with the respective base so that it can be guaranteed the tightness of the device.

5. IRZ is provided with a metal bracket suitable for fixing to the tank's eyebolt.

If the eyebolt position was not reached, fix the device to the brackets of the edge of the tank or to other parts metal not subject to the passage of the gas (do not use pipes or fittings pre-existing to the fixing of the IRZ)



Not make holes in any part of the tank.

ACTIVATION PROCEDURE

The activation procedure must be performed to the first installation of the device, or whenever it is reset to factory defaults.

1. Push the ON button and hold it for at least 5 seconds; wait until the GREEN LED flashes continuousl .

2. Wait an acoustic signal consisting of tones repeated. There are 3 possibilities:

a) 3 tones repeated every 5 seconds: The GSM is registered and the quality of the signal is good.

b) 2 tones repeated every 5 seconds: The GSM is registered but the quality of the signal is not good.

In this case the installation could to be not completed successfully

c) 1 tone repeated every 5 seconds: The GSM is not registered or there are some troubles in the SIM card. In this case the installation will fail.

3. Push the **WK button** 5 times in maximum 5 seconds, you have to hear a long and prolonged tone.

As soon as the tone ends, press the button WK other 5 times within 5 seconds; the confirmation of the exact procedure is done by a tone with length 1 second repeated 2 times.

4. Wait until you receive the email with the installation report:

Device installed: IRZ000000015852 –

I-READ ZERO has been installed:

Battery: 3.846 V

GSM: 27/31

Level: 62.1%

Check and verify the data as in table:

SERIAL NUMBER	LEVEL	BATTERY	GSM SIGNAL
00000000019573	57.3%	>3.5V	>7

NOTE: if the maintainer does not receive the e-mail with the report of the installation you need to contact the Shitek assistance service.

NOTE: to calculate the level, IRZ reads the angle of the magnetic field provided by the level indicator.

It is advisable to replace the level indicator with a new one, since there is the certainty of the quality of the magnet of a old level indicator.

Shitek Technology Srl is not responsible for the quality and/or of the measure's error if the technical conditions do not comply with the requirements.

VISUAL FEEDBACK ON ELECTRONIC BOARD: LED

The following table show the functionality provided by the 2 LEDs on the printed circuit board

LED GREEN	
Off	GSM/GPRS module off
Always On	GSM/GPRS module on, but not registered to GSM network
Slow blink	GSM/GPRS Module on, registered to GSM network
Fast blink	GSM/GPRS Module on, registered to GSM network, ongoing communication

LED RED	
On	SMS or GPRS communication active
10 Fast blinks	Start or end of the installation procedure

INSTALLATION DATA

It is advisable to write in the table below the data of the installed device to align the setup information at the venue

SERIAL NUMBER		
INSTALLATION CODE		
ADDRESS		
DESCRIPTION		
TANK TYPE	HORIZZONTAL	VERTICAL



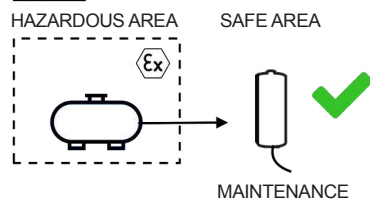
DON'T RUB



ONLY ORIGINAL BATTERY



RESPECT ESD REQUIREMENTS



Shitek Technology Srl reserves the right to check the personnel responsible for this function both adequately instructed with appropriate audit that can be planned with the direction.

HITEKS by Shitek Technology Srl

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