

Intelligent Wireless Transmitter

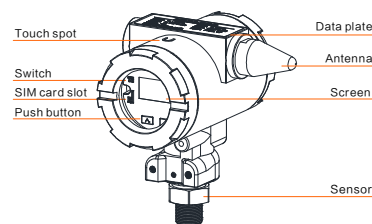
Instruction Manual v1.0

Introduction

Intelligent Wireless Transmitters are industrial pressure instruments that integrates the battery-powered, ultra-low power consumption, wireless communication, and pressure / level / Temperature / Differential Pressure monitoring. Based on the extensive coverage of the NB-IoT / 4G public network, these products enable online monitoring of sites over a wide area. Combined with the application of MicroSensor web data platform, remote configuration of sampling interval, transmission interval, alarm threshold can be achieved.

The instrument design meets the protection rating of IP65, can be used outdoors, supports simple and fast installation. Featuring automatic data uploading after starting up, and data view on sites via PC or cellphone, it is quite suitable for the monitoring in the environment is not available with power supply.

Panel Instruction



Operation Instruction

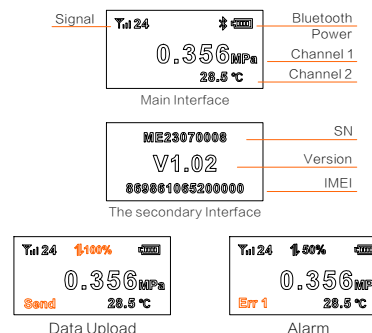
Power Switch: Toggle to "ON", the screen displays "Hello" and the device power on; Toggle to "OFF", the screen displays "Goodbye" and the device power off.

Wake-Up Screen: Tap any button (Magnetic stick trigger 1s), to light up the screen.

Left Button: The screen lights up, then short press to switch screen interface.

Right Button: The screen lights up, then press and hold for 3s, "Send" appears in the screen, enter the data reporting process.

Screen Instruction



Specification

Range: Pressure Transmitter: 0 ~ 20kPa ... 70MPa

Level Transmitter: 0~10mH2O

Temperature Transmitter: -50 ~ 250°C

Differential Pressure Transmitter: 0 ~ 3.5MPa

SIM Card: built-in Nano-SIM card

Power Supply: 3.6V@38 Ah lithium battery

Power Consumption:

Average working current <30mA @ 3.6V DC

Standby sleep current <10uA @ 3.6V DC

Network Mode: NB-IoT/4G/L0RaWAN

Wake-up Mode: button, timing, alarm wake up

Housing Material: Aluminum Alloy+Stainless Steel

Protection Level: IP65

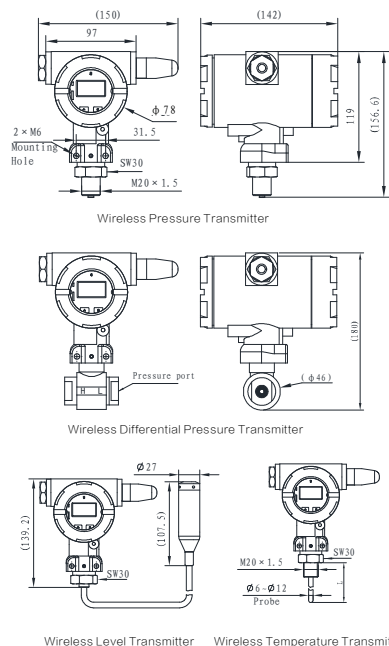
Installation method: threaded mounting / bracket mounting

Configuration Mode: local bluetooth / remote configuration

Three-party Application: MQTT / support third-party platform docking

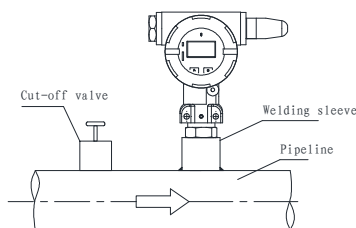
Outline Dimension

Unit:mm

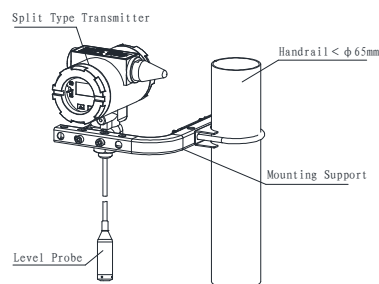


Installation

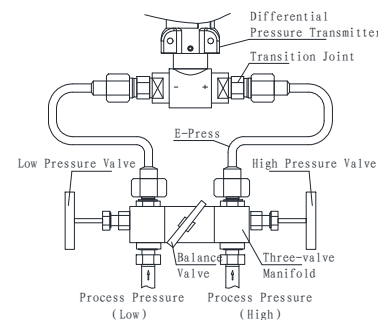
Pressure / Temperature Transmitter Installation:



Level Meter Installation:



Differential Pressure Transmitter Installation:



Common Fault and Resolution

Process	Fault codes	Definitions	Troubleshooting
10%	noPWR	Module cannot communicate	Check power, the module loose
20%	noSIM	SIM card is not identified	No card, Unidentified
30%	noNet	No network	Poor signal, Card arrears
40%	noLink	Network connection exception	Check IP address
50%	noRev	Server cannot return	Check server return
100%	/	Data upload completed	/
/	Err 1-9	Sensor acquisition abnormal	Check sensor, Return to factory

Packing List

Intelligent Wireless Transmitter	1pcs
Certificate of Compliance	1pcs
Instruction Manual	1pcs/lot
Magnetic Bar	1pcs/lot
Installation Bracket (Purchase on selection)	1pcs

Battery Use Instruction

Battery charging, short circuit, heat more than 100°C, disassembly, putting the battery into water or directly soldering on the battery is forbidden, otherwise it may cause explosion, burning and leakage of acid inside the battery. Please send the used batteries to the waste recycling station and no littering.

Responsibility

Within one year from the delivery date, we shall repair or replace the instrument with any quality fault caused by material parts or our manufacturing technique free of charge. For non-quality malfunction during user's operation, we are in charge of repair. But, the material cost and the shuttle transportation fees should be borne by users.