

Wireless AI Transducer User's Manual

Product Name: **Wireless AI Transducer**

Model No: **WAT-110**

Input Power: **4~ 20mA**

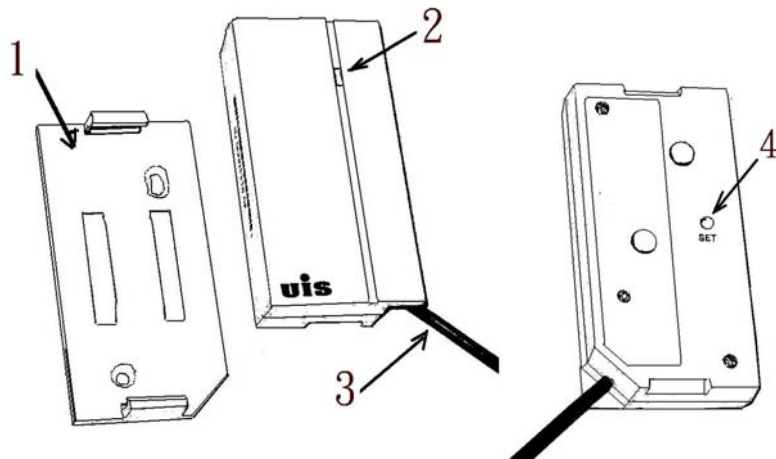
Features Description ::

1. WAT-110(Wireless AI Transducer) is connected to the industrial control instrument.
2. Wireless transmission of 4 ~ 20mA analog signal.
3. Wireless analog signal converter WAT-110 and the wiring is 4 ~ 20mA signal loop serial.
4. WAT-110(Wireless AI Transducer) is By 4 ~ 20mA current signal conversion work out 3V DC power supply.
5. Easy to install and configure, Linked with the instrumentation wiring. In the initial use of the back simply click on Settings button connected with the repeater.
6. WAT-110(Wireless AI Transducer) has a magnet base, can be adsorbed on the iron outside the box. Foundation stop plate can be fixed on the pillar approach.

Outline Dimensions :



Feature Locator :

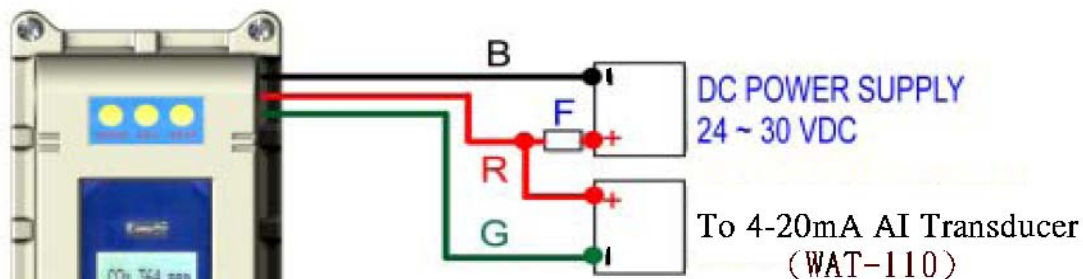


1. Foundation stop plate
2. State of LED window
3. Outlet wires
4. (SET) Setting button

Installation Hints :

1. Need to first WAT-110 (Wireless AI Transducer) and industrial control instrumentation of 4 ~ 20mA signal loop connecting thread, we will then start using.
2. WAT-110 (Wireless AI Transducer) leads two features excellent line and described as follows:
 - a. Black wire Signal input 4~ 20mA (negative)
 - b. Red wire Signal input 4~ 20mA (positive)
2. To match GTF200-FL (Gas detection equipment) as an example, the wiring diagram that is as follows:

A TYPICAL WIRING OF ANALOG OUTPUT



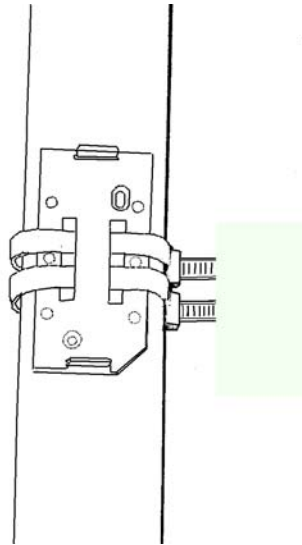
Legend and Description

- B:** Negative wiring of detector
- R:** Positive wiring of detector
- G:** Analog wiring of detector
- F:** Fuse

(GTF200-FL)

3. The WAT-110 (Wireless AI Transducer) properly then after the loop, after the first power, such as 3 to 5 minutes to allow (WAT-110) within the first Gold capacitor charging, and then press (WAT-110) of the SET button at the bottom of, Then press the setting button of WR-110 (Wireless repeater) bottom. Wait for 30 seconds to 1 minute. If LED indicator light flash three times that means linking success. If LED indicator light flash two times that means fail.

4. Join to link with Gateway, please reference user manual of WCC-110 (Wireless console controller).
5. Foundation stop plate can be fixed on the pillar approach, the fixed as follows plans:



Troubleshooting:

1. **Problem :** When link with WR-110 (Wireless repeater), there is no display of LED indicator light for WAT-110 (Wireless AI Transducer) to flash two or three times.
Solution :
 - a. .Need to confirm with the industrial control instrumentation of the 4 ~ 20mA signal loop lines connected to a good wiring is correct and there is 4 ~ 20mA signals, the supply of electricity.
 - b. May be not press set button, need to link with repeater again.
 - c. If the above handles are invalid, please contact with agency.
2. **Problem :** Unable to link with WR-110 (wireless repeater).
Solution:
 - a. It needs to confirm the distance between WAT-110 (Wireless AI Transducer) and WR-110 (Wireless repeater). Wireless connects in non-camouflage straight line effective range 10 meters. May pull closer between both distance test to have a look first, whether to have the improvement segment condition.

Specification:

Wireless AI Transducer	
Model No.	WAT-110
Electrical Specification	
Transmit Frequency	2.4GHz
Modulation	GFSK
Transmit Power	0 dBm
Channel spacing	1 MHz
Channel NO.	81 Channel(2401 ~ 2481Mhz)
Range of operation	10 meters
Operating voltage	3.0V DC (Power from Current Loop)
Current (typical)	Working: 14mA Peak

	Standby: 1 uA Max
Input Signal (Current)	4-20mA *1
Display Type	Red LED indicator
Operation Interface	Push button switch for setting
Environmental Requirement	
Operating temperature	-20°C to 60°C
Storage temperature	-20°C to 70°C
Humidity	90% RH Max. Non-Condensing
Mechanical Specification	
Dimension (WxHxD, mm)	40x80x22
Weight	36g
Pin Assignment	
Pin 1- (Red)	Positive 4-20mA Signal Input
Pin 2- (White)	Negative 4-20mA Signal Input

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Canada Warning

"Industry Canada regulatory information Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device." "The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions."