ANALOG & PULSE
WIRELESS SENSORS
FOR EZEIO

This wireless expansion module adds four general purpose inputs, two outputs to the ezeio controller. The module communicates wirelessly with the ezeio controller and is very easy to set up.

Easily expand the ezeio Controller with additional inputs and outputs using this wireless expansion module.
Each input can be configured for 0-10V, 0-5V, 0-30mA, resistance/switched or pulse. The inputs are also compatible with NTC type temperature sensors. In addition to the four inputs, there are also two relay outputs.

This wireless module is ideal for monitoring free-standing refrigeration units, hard to reach flow sensors or energy meters. An optional integrated Temp/RH sensor can be used to calculate dew point for anti-sweat heat control or air enthalpy for HVAC economizers.

► **4 universal inputs, 2 relay outputs**
► **Compatible with pulse meters**
► **Non volatile counter registers**
► **Up to 300 ft range. Secure communications.**

Features

• Four general purpose inputs

• Two relay outputs

• Up to 300ft range

• Less than 0.2W self draw

• Easy to mount, connect and configure

• Up to 9 expanders per ezeio Controller

• Built in non-resettable pulse count registers

• External radio link status LED

Technical specifications

Dimensions:	5." x 2.5" x 1.2" (130 x 63 x 29mm)
Weight:	4oz (115g)
Supply:	8-25VDC, <0.2W. 12VDC adapter included
Environment:	32-120F (0-50C), non condensing
Inputs:	4 inputs on screw terminal configurable for 0-10V, 0-5V, 0-30mA, Resistance or Pulse
Input resolution:	10 bits (10mV at 0-10V setting)
Max pulse rate:	Up to 200 pulses/second
Pulse registers:	Interval & Count per input
Outputs:	2 relay outputs on screw terminal Form C (1 pole switching) Max 2A/50V
Built-in sensor:	Temperature and RH (optional)
Radio:	915MHz, Frequency hopping, encrypted 868MHz version for EU available
Range:	Up to 300ft

Normal setup

To add the RF expander to the system:
1) Click *Configure* -> *Devices* -> *Add Device*
2) Select Wireless device, and enter the serial number of
   the new RF device.
3) Click *Add device*, and *Save Changes*
The device is now added to the system.
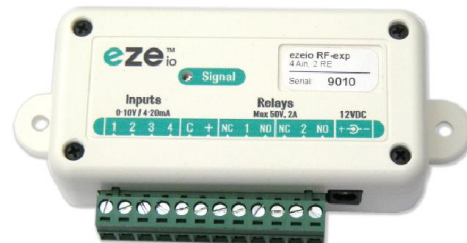
Pairing
If the RF expander is not paired, the Signal LED will blink slow.
Pairing is automatic, but may take up to 4 minutes.

To add inputs/outputs:
1) Click Configure -> Inputs (or outputs) -> Add Input (output)
2) In the Input Location drop-down, select the expander in/output
3) Enter the conversion, logging, name etc for your in/output.
4) Save changes.

Signal LED cadences

The Signal LED will turn on for 4 seconds after power is applied.
After 4 seconds, the Signal LED will indicate status as follows:

Slow blink	Waiting to pair / searching for controller
Short flashes about 1/s	Normal operation. Communicating with controller.
Fast continous flashing	Radio error or system reset. Please power cycle.
No flashing	No power, or master controller out of range.

Break pairing / pair with other controller

To break the pairing, simply power cycle the RF expander file (5) times, removing
the power during the time when the LED is lit after startup. The LED will blink fast
on the 5th power-up to indicate the pairing has been reset.

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