

NETWORK & WIRELESS

FRONTIER 2.0 WIRELESS DIGITAL INPUT MODULES

RT2602, RT2620

DESCRIPTION

The Frontier 2.0 **RT2602** and **RT2620** wireless remote digital input modules accept a variety of digital sensor/control inputs and transmits wirelessly to Frontier 2.0 receivers. They can be used for remote alarm/status indications and wireless on/off control applications. Up to 4 dry contact inputs can be monitored.

A Data-Link LED is used to confirm the receiver has received the data transmission. This eliminates the need for special wireless installation equipment or tools and allows for quick installation.

FEATURES

- **Battery powered or 24 VAC powered remote wireless sensor input modules**
- **Up to 4 digital inputs (relay contact)**
- **No calibration required**
- **Mesh Network - easy to install and relocate sensors without additional wireless installation tools**
- **Sensor Data-Link LED confirms connection with Frontier 2.0 receivers**
- **Long battery life (approximately 4 to 5 years)**
- **Low battery LED + remote low battery alarm notification**
- **Optional 24VAC power (RT2620A)**
- **Reliable Spread Spectrum technology**



RT2620



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NETWORK & WIRELESS

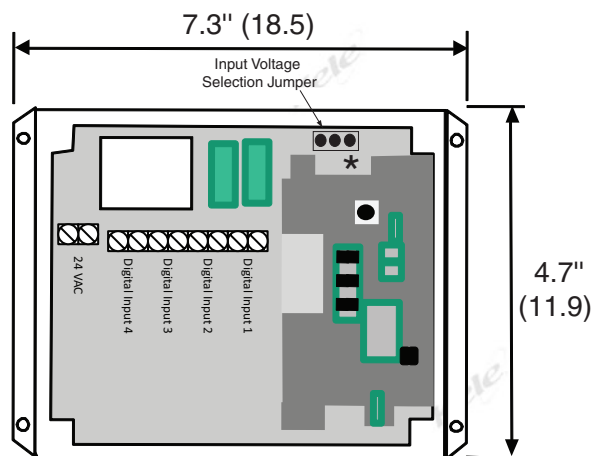
SPECIFICATIONS

Supply Voltage	24 VAC 60 Hz (A model only)
Battery	Lithium 3.0V 1400 mAh (Duracell DL123A)
Supply Current	500mA
Frequency	923.58 MHz
Digital Inputs	
RT2602	2 dry contacts
RT2620	4 dry contacts
Transmission Power	11 dBm
Range	1 mile (line-of-sight)
Indoor	200 to 500 ft
Operating Temperature	15° to 125°F (9° to 51°C)
Operating Humidity	5 to 95% RH (non-condensing)
Dimensions	7.3"H x 4.7"W x 2.25"D (18.5 x 11.9 x 5.7 cm)
Weight	1.2 lb (0.54 kg)
Approvals	FCC certified
Warranty	1 year

DIMENSIONS

RT2620A

in
(cm)





INSTALLATION

CAUTION:

Sensors, Repeaters and receivers should NOT be installed in the following areas:

- Inside metal enclosure or panel
 - Inside or immediately next to elevator shaft or elevator banks
 - In front of or immediately next to large trees or a large body of water
- Transmission distance and performance will be drastically reduced.

CAUTION:

Do not use this product in any safety related applications where human life may be affected.

Wireless digital transmitters should be installed within 200 to 500 feet of the receiver. RR2552 signal repeaters can be installed as needed to increase transmission distance between sensors and receivers.

Sensor Location:

To select the proper sensor location, first install and power the receiver. Observing polarity, insert the battery into the sensor to activate it (for RT2620A, move the voltage selection jumper to battery operation before inserting the battery). The mesh networked Frontier 2.0 system does not require any additional wireless equipment to determine the proper location of the sensors.

While the sensor is attempting to connect to the receiver, the Data-Link LED will blink rapidly 8-10 times every 10 seconds. Once a connection has been established the Data-Link LED will blink once to indicate the data transmission has been received successfully. The Data-Link LED will continue to blink once for every data transmission. The data transmission rate is programmed into the sensor (normally 1 minute intervals). To manually initiate a data transmission, press the push button switch located by the negative terminal of the battery.

Installation:

Once the location has been determined, mount the **RT2602/RT2620** remote transmitter on a wall using four #8 screws. Determine if the **RT2602/RT2620** remote transmitter will be powered by 24 VAC or by batteries on a permanent basis.

For 24 VAC Operation (RT2620A only):

If the device is to be powered by 24 VAC, move the voltage selection jumper to 24 VAC position and connect 24 V 60 Hz to the input terminals using 18-20 AWG wire.

For Battery Operation:

If the device is to be powered using the 3.0 volt batteries – remove the voltage selection jumper and reposition it for battery operation (RT2620A only).

NOTE:

For RT2620A, the device is shipped with the voltage selection jumper installed in the 24 VAC position.

For proper operation it is important to use the correct type of battery. Lithium 3.0V 1400 mAh (Duracell DL123A) batteries. Installing the battery or applying 24 VAC (**RT2620A** only) will activate the transmitter again.

Sensor Inputs:

Wire the sensor inputs to the appropriate terminals using 18 AWG wire. Record the sensor location on the wiring label located inside the cover.

ORDERING INFORMATION

MODEL	DESCRIPTION
RT2602B	Battery powered device with 2 digital inputs
RT2620A	Battery powered or 24 VAC powered (field selectable) device with four (4) digital sensor inputs
RT2620B	Battery powered only device with (4) digital sensor inputs