



Input Module

*Input Module
NEMA 4X Enclosure*

RT2620

Wireless Digital Sensor Input Module

The RT2620 wireless remote Digital Sensor Input Module accepts a variety of digital sensor or control inputs and transmits wirelessly to the receiver. It can be used for remote alarm or status indications and wireless on/off control applications. The RT2620 can be used with any Meshnet900™ or MOD9200 Series Transceiver, before linking directly to your DDC system. The maximum radio transmission distance is dependent on building architecture and layout. The maximum open air transmission distance is one mile. In a typical commercial building with steel I-beam construction, concrete floors with reinforcing rods, and metal stud walls, it can be expected that transmissions will penetrate vertically one floor above and below the location of the sensor and horizontally through 200 to 500 feet of walls, furniture and air. 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 and to improve system reliability.

The RT2620 is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.





SPECIFICATIONS

Input Voltage	Battery: 2/3A, Type: Lithium 3.0V 1400 mAh (Duracell DL123A) or 24 VAC
Digital Inputs	(4) Dry Contact Closure
Transmitter Characteristics	Operating Frequency: 902-928 MHz Transmitter Power: 11 dBm, Receiver Sensitivity: -110 dBm
Open Field Range	One Mile (line of sight)
Operating Temperature Range	32 to 140°F (0 to 60°C)
Operating Humidity Range	5 to 95%, non-condensing
Data Transmission Interval	75 seconds
Transmitter Characteristics	Center Transmit Frequency: 923.58 MHz Transmitter Power: 11 dB
Product Dimensions	Standard Housing: (L) 6.13" (W) 4.62" (H) 2.25" NEMA 4X Housing: (L) 6.73" (W) 4.76" (H) 2.17"

ORDERING

Please select a Wireless Device (A).

A Wireless Device

- RT2620A** (Battery powered or 24 VAC powered field selectable device with four (4) digital sensor inputs)
- RT2620AE** (Battery powered or 24 VAC powered field selectable device with four (4) digital sensor inputs) (NEMA 4X enclosure)

BUILD PART NUMBER

After completing (A) from the above table, fill in the Part Number Table below. An example part number is offered.

A

EXAMPLE: RT2620AE

Once the location has been determined, mount the RT2620 remote transmitter on a wall using four #8 screws. Determine if the 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 24V 60 Hz to the input terminals using 20 AWG wire.

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. Size:2/3A, Lithium 3.0V 1400 mAh (e.g. Duracell DL123A) batteries. Installing the battery or applying 24 VAC (RT2620A only) will activate the transmitter again.

To select the proper sensor location, first install and power the receiver. Insert the battery into the sensor, being sure to observe polarity. The Meshnet900™ 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. The Data-Link LED will continue to blink once for every successful data transmission. The data transmission rate, normally 75-second intervals, is programmed into the sensor. To manually initiate a data transmission, press the push button switch located by the negative terminal of the battery.

Must use an interposing or isolation relay when using a solid state contact such as a MosFET, FET, or Triac. Failure to do so may damage the wireless transmitter.