

# EX2432D

## Wireless Output Expansion Module

The EX2432D is an expander module designed for use with the RM2432D receiver to add sensors to a system. The EX2432D has four (4) analog and four (4) digital outputs and is powered by the RM2432D. A maximum of two (2) EX2432D expander modules can be added to the RM2432D for a total of 12 analog (0-5 VDC, 0-10 VDC) and 12 digital (dry contact) outputs. The sensors are programmed to the EX2432D using the configuration software (included), a laptop, and CK2432D programming cable. Transmission distance in a typical building is

200-300 feet horizontal depending on the layout and construction of the building, and one floor above and one floor below the transceiver. Sensor distance and reliability can be increased with the addition of a RR2552B(s) repeater.

**Applications:** Museums, Churches, Historical Buildings & New Construction

The EX2432D 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 website, [www.workaci.com](http://www.workaci.com).

### PRODUCT SPECIFICATIONS

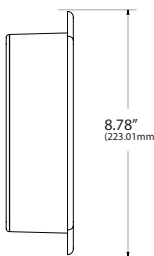
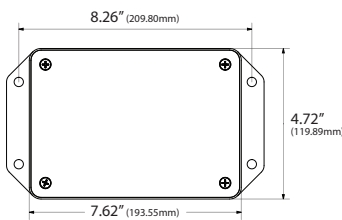
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|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supply Voltage:</b>                           | 24 VAC, 60 Hz (Full wave rectified) Supplied from RM2432D                                                                                                                                                                                                                                                                                                          |
| <b>Supply Current:</b>                           | 300 mA                                                                                                                                                                                                                                                                                                                                                             |
| <b>Connections:</b>                              | Screw Terminal Blocks                                                                                                                                                                                                                                                                                                                                              |
| <b>Wire Size:</b>                                | 16 AWG (1.31 mm <sup>2</sup> ) to 26 AWG (0.129 mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                  |
| <b>Terminal Block Torque Rating:</b>             | 0.37 ft-lb (0.5 Nm) Nominal                                                                                                                                                                                                                                                                                                                                        |
| <b>Operating Temperature Range:</b>              | 32 to 122°F (0 to 50°C)                                                                                                                                                                                                                                                                                                                                            |
| <b>Operating Humidity Range:</b>                 | 30 to 50% RH, Noncondensing                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Temperature Range:</b>                | -4 to 176°F (-20 to 80°C), 70% RH                                                                                                                                                                                                                                                                                                                                  |
| <b>Data Protocol:</b>                            | IEEE 802.15.4-2003/2006                                                                                                                                                                                                                                                                                                                                            |
| <b>RF Characteristics:</b>                       | 900 MHz, Operating Frequency 10 channels between 902 – 928 MHz<br><b>Transmitter Power:</b> 11 dBm   <b>Receiver Sensitivity:</b> -11 dBm                                                                                                                                                                                                                          |
| <b>Transmission Distance:</b>                    | 200 – 300 ft horizontally depending on building type and constructions, and typically one floor above and below the transceiver vertically                                                                                                                                                                                                                         |
| <b>Digital Outputs:</b>                          | Four (4) SPDT Pilot Duty Relays, Dry Contact                                                                                                                                                                                                                                                                                                                       |
| <b>Contact Rating:</b>                           | 1.0A, 30 VDC @ 104°F (40°C), 0.5A, 125 VAC @ 104°F (40°C) Resistive                                                                                                                                                                                                                                                                                                |
| <b>Relay Durability:</b>                         | <b>Mechanical:</b> 5,000,000 operations minimum @ 36K operations/hr<br><b>Electrical:</b> 100,000 operations minimum (under rated load @ 1.8K operations/hr)                                                                                                                                                                                                       |
| <b>Lost Signal Alarm:</b>                        | One (1) SPDT, Dry contact relay, 1.0A, 30 VDC @ 104°F (40°C), 0.5A, 125 VAC @ 104°F (40°C) Resistive                                                                                                                                                                                                                                                               |
| <b>Analog Outputs:</b>                           | Four (4), 0-5/10V jumper selectable                                                                                                                                                                                                                                                                                                                                |
| <b>Configuration Software:</b>                   | Included; Data registers need to be configured prior to use                                                                                                                                                                                                                                                                                                        |
| <b>System Requirements:</b>                      | <ul style="list-style-type: none"><li>• Laptop with Windows 98, XP, Vista, Windows 7 or Windows 10, Ethernet port, and 10GB memory</li><li>• Direct connection from PC to RM2432D using CK2432D serial to RJ11 programming cable (USB to serial adapter not provided by ACI)</li><li>• IP Address of PC must have static address of 192.168.0.2 or above</li></ul> |
| <b>Enclosure Material   Flammability Rating:</b> | <b>Standard:</b> ABS Plastic   UL94-5VA   <b>NEMA 4X:</b> Polycarbonate Plastic   UL94 HB                                                                                                                                                                                                                                                                          |
| <b>Product Dimensions:</b>                       | <b>Standard:</b> (L) 8.78" (223.01 mm) x (W) 4.72" (119.89 mm) x (H) 2.36" (59.94 mm)<br><b>NEMA 4X:</b> (L) 8.74" (222.00 mm) x (W) 5.74" (145.80 mm) x (H) 2.96" (75.18 mm)                                                                                                                                                                                      |
| <b>Product Weight:</b>                           | <b>Standard:</b> 1.67 lbs (0.76 kg)   <b>NEMA 4X:</b> 2.13 lbs (0.97 kg)                                                                                                                                                                                                                                                                                           |



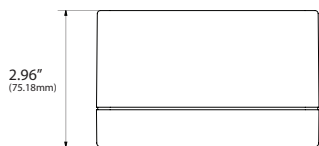
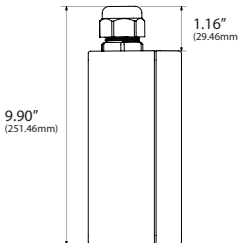
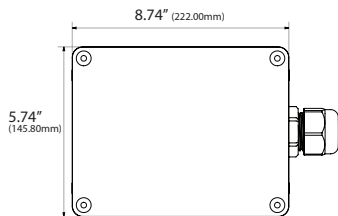


DIMENSIONAL DRAWING

Standard



NEMA 4X



Front View

Right View

Top View

STANDARD ORDERING

Model # Example: EX2432D -OR- 130696

| Model #  | Item # | Description                          |
|----------|--------|--------------------------------------|
| EX2432D  | 130696 | Expansion Module, Standard Enclosure |
| EX2432DE | ----   | Expansion Module, NEMA 4X Enclosure  |

ACCESSORIES ORDERING

Model # Example: CK2432D -OR- 130693

| Model # | Item # | Description                                                    |
|---------|--------|----------------------------------------------------------------|
| CK2432D | 130693 | Programming Cable for Wireless Receivers and Expansion Modules |

