MESHNET900™ GATEWAY TRANSCEIVERS

DESCRIPTION

The ACI MOD9200 Meshnet900™ network transceiver utilizes reliable Spread Spectrum Mesh Network Radio technology. Together with other Meshnet900™ sensors and controls, the system can be used to wirelessly transmit remote sensor readings, status/alarm indications, control signals and outputs. It is compatible with any control panels or Automation systems that utilize BACnet MSTP (MOD9200BNT) or LonWorks® (MOD9200LON).

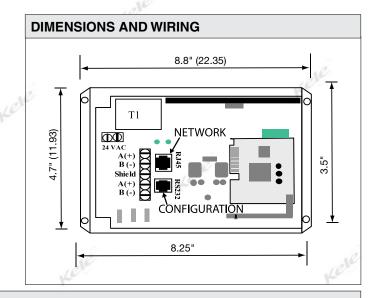
Up to 50 separate physical wireless sensor transmitters and/ or wireless remote output (analog & digital) modules can be used with (1) MOD9200 transceiver. Up to 100 data points can be monitored and controlled.

The maximum radio transmission distance is dependent on building type. The maximum open-air transmission distance is 200 to 500 feet open air.

FEATURES |

- Supports LonWorks? Protocol (MOD9200LON)
- Supports BACnet MSTP Protocol (MOD9200BNT)
- · 100 data points per gateway
- Multiple MOD9200 Transceivers can be used for large systems
- · Low battery and lost sensor alarm indications
- Mesh Network easy to install and relocate sensors without additional wireless installation tools





SPECIFICATIONS

DEVICE OPERATION

Supply Voltage

Output

Mounting

MOD9200BNT

Operating Temperature

Operating Humidity

Enclosure Rating

Construction

Dimensions Weight

Wiring

Transmitted Range Value

24 VAC (±20%), 300mA

Transmits to RM24xx contacts open/closed Transmits to RM24xx 0-10V analog signal

Transmits to RM24xx 0-20MA analog signal

None

Protocols BACnet, MSTP Modbus, RTU

LonWorks®, FTT-10

Accuracy No degradation of accuracy Indication 2 LEDs for data link and active operation A/D resolution

12 bit (4095 counts)

Direct to wall w/tabs using four #8 screws

BACnet, 5 terminals RS485, 2 Power terminals

MOD9200M Modbus, 5 terminals RS485, 2 Power

terminals

MOD9200LON LON, 5 terminals FTT-10, 2 Power terminals

32° to 150°F (0° to 65°C)

5 to 95% RH (non-condensing)

ABS (NEMA 1) NEMA 1 (UL 94 HB)

8.7"W x 5.7"H x 3.0"D (22.1 x 14.6 x 7.5 cm)

1.2 lb (0.54 Kg)

Warranty 1 vear

RADIO RECEIVER

Protocol

Frequency **Channel Network**

Modulation

Transmit Power Receiver Sensitivity

Open Air Range

Low Battery Indication

Transmission time Antenna

Channels

Device Addresses

Programming

Repeater Capable

Compliance

Proprietary (ACI), IEEE 802.15.4-2003/2006 Data-Link LED confirms receiver reception 902-928 MHz

1 of 64 network addresses

Direct Sequence Spread Spectrum (DSSS)

11.2 mW (11 dBm)

-110db

5.280 ft (1.600m) Open air

200' - 500' (61-152 m) in building

No 20ms Internal

1 of 63 network addresses

Limited to, 50 physical transmitter addresses Limited to 100 data PT's & 100 output PT's

Program via FTP w/RJ45 X-over cable

(provided buy user)

Yes, (can receive from any channel

reapeater)

FCC ID# T4F061213RSO, RoHS

MESHNET900™ GATEWAY TRANSCEIVERS MOD9200

INSTALLATION

CAUTION:

Units should NOT be installed in the following areas transmission distance and performance will be drastically reduced:

- Inside metal enclosure/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

Refer to the configuration setup instruction manual for configuration of the **MOD9200BNT** registers and BACnet variables setup. A PC is required for the setup of the Transceiver.

Refer to the configuration setup instruction manual for configuration of the **MOD9200LON** registers and SNVT variables setup. A PC is required for the setup of the Transceiver.

Choose a location close to the Gateway network connection and away from the ground.

Mount the gateway on the wall using four #8 screws.

24 VAC Input - Connect 24VAC 60 Hz to the input terminals using 18-20 AWG wire.

MSTP (RS485) - Use 20 or 22 gauge shielded twisted pair wire to connect the Transceiver (Terminals A+ & B-) to the MSTP network.

FTT-10 (LonWorks) - Use 20 or 22 gauge shielded twisted pair wire to connect the Transceiver (Terminals A+ & B-) to the LON network. Must be Echelon approved cable.

ORDERING INFORMATION

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	MODEL	DESCRIPTION
	MOD9200BNT	BACnet MSTP network transceiver (100 points per gateway)
	MOD9200D	Modbus network transceiver (100 points per gateway)
	MOD9200LON-A	Up to 30 wireless wall temp sensors with setpoint adjustments and/or push button override switches, up to 6 humidity sensors, up to 50 wireless digital outputs & up to 50 wireless analog out.
	MOD9200LON-B	Up to 50 wireless temperature only sensors (50 wall, duct or immersion types), up to 50 wireless digital outputs & up to 50 wireless analog out.
	MOD9200LON-C	Up to 50 wireless sensors (up to 50 temperature points and up to 50 humidity points), up to 50 wireless digital outputs & up to 50 wireless analog out.
	MOD9200LON-D	Up to 50 wireless devices (40 0-10VDC point types, 40 discrete inputs, 10 temperature, 10 humidity point types), up to 50 wireless digital outputs & up to 50 wireless analog out.
	MOD9200LON-E	Up to 50 wireless sensors/transmitters (26 temperature points, 26 setpoint adjustments, 26 push button override switches, 12 CO2 PPM inputs, 6 humidity points, 4 digital status inputs), up to 50 wireless digital outputs & up to 50 wireless analog out.
	MOD9200LON-F	Up to 50 wireless sensors (up 40 temperature points, up to 20 humidity points & 40 discrete inputs), up to 50 wireless digital outputs & up to 50 wireless analog out.

CK2432-K	ACCESSORIES Programming set-up cable
691-K0A AM-24830A	RELATED PRODUCTS Control transformer, 120:24 VAC, 40 VA, Class 2 Plug-in Class 2 Transformer, 120 VAC to 24 VAC, 20 VA

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