MOD9200LON

Spread Spectrum LonWorks™ Transceiver

The MOD9200LON network transceiver utilizes reliable Spread Spectrum Mesh Network Radio technology. Together with other wireless sensors and controls, the system can be used to transmit remote sensor readings, status/alarm indications, control signals and outputs wirelessly. It is compatible with control networks or automation systems that utilize LonWorks™ communication protocol or interface. Up to 50 separate physical wireless sensor transmitters and/or wireless remote output (analog & digital) modules can be used with a single MOD9200LON Transceiver and up to 100 data points and 100 wireless outputs can be monitored and controlled with a single MOD9200 Transceiver. The maximum radio transmission distance is dependent on building type. 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 safely penetrate one floor above and below the location of the transceiver and horizontally through 200 to 500 feet of walls, furniture and air.

The MOD9200LON 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 Power	24 VAC, 60 Hz, 250 mA nominal
Network/Internet Connections	Protocol LonWorks™ Physical Layer FTT-10 (Free TopologyTwisted Pair) Data rate 78kbps
LonWorks®	Temperature: SNVT_temp_p, Override Push Button: SNVT_occupancy, Setpoint Adjustment: SNVT_temp_p Humidity: SNVT_lev_percent, Sensor Status/Alarms: SNVT_count PPM: SNVT_ppm Digital output: SNVT_count, Analog Output: SNVT_lev_percent
RF 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 122ºF (0 to 50ºC)
Operating Humidity Range	5 to 90% RH, non-condensing
Product Dimensions	(L) 7.62" (W) 4.62" (H) 2.25"

ORDERING

Please select one Wireless Device (A). **NOTE:** Only the MOD9200LON-E will support setpoint adjustments (see below).

A Wireless Device

- ○ **MOD9200LON-A** (Up to 30 wireless wall temp sensors, 6 RH sensors, 50 wireless digital & analog outputs)
- ○ **MOD9200LON-B** (Up to 50 wireless temperature sensors (50 wall, duct & immersion types), 50 wireless digital & analog outputs)*
- ○ **MOD9200LON-C** (Up to 50 wireless sensors (50 temperature points, 50 humidity points), 50 wireless digital & analog outputs)*
- ○ **MOD9200LON-D** (Up to 50 wireless devices (40 0-10 VDC point types & inputs, 10 temp & RH point types), 50 wireless digital & analog outputs)
- ○ **MOD9200LON-E** (Up to 50 wireless sensors/transmitters (26 setpoint adjustments & push button override switches, 12 CO2 PPM inputs, 6 RH points, 4 digital status inputs), 50 wireless digital & analog outputs)
- ○ **MOD9200LON-F** (Up to 50 wireless sensors (40 temperature points, 20 RH points & 40 discrete inputs), 50 wireless digital & analog outputs)*

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: MOD9200LON-B

Refer to the configuration setup instruction manual for configuration of the MOD9200LON input variables setup. A PC and a 10/100 Base T Ethernet Cable are required for the setup of the Transceiver. Choose a location close to the Lonworks™ network connection and away from the ground. For best results, the transceiver should be mounted in an open area rather than a mechanical room. Mount the gateway on the wall using four #8 screws. 24 VAC Input: Connect 24 VAC 60 Hz to the input terminals using 20 AWG wire.

Configuration software included.

ACI can program the system for a nominal fee. Please contact ACI for details.