MOD9200D

Spread Spectrum MODBUS Network Transceiver

The MOD9200D MODBUS 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 and control signals wirelessly. It is compatible with any control systems or Programmable Logic Controller (PLC) panels that utilize MODBUS 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 MOD9200D Transceiver and up to 100 universal data points and 100 outputs can be monitored and controlled with one (1) MOD9200D Transceiver. The maximum radio transmission distance is dependent on building type. In a typical commercial building with steel I-beam construction, concrete floors with reinforcing rod, and metal stud walls, it can be expected that transmissions will penetrate vertically through floors and horizontally through 200 to 500 feet of walls, furniture and air.

The MOD9200D 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, 400 mA (nominal)
Transceiver Inputs (Universal)	100 Analog or Digital Inputs (maximum) (Maximum of 50 sensors/modules per transceiver)
Transceiver Outputs	100 points total (50 Digital and 50 Analog points per transceiver)
RF Characteristics	Operating Frequency: 902-928 MHz Transmitter Power: 11 dBm Receiver Sensitivity: -110 dBm
Operating Temperature Range	32 to 122ºF (0 to 50ºC)
Operating Humidity Range	5 to 95%, non-condensing
Communication Protocols	Ethernet: RJ45, CAT 5 cable RS232: Serial communications
Open Field Range	One mile (line of sight)
Product Dimensions	(L) 7.62” (W) 4.62” (H) 2.25”

ORDERING

Please select MOD9200D as a Wireless Device (A).

A Wireless Device

- ◯ **MOD9200D** (MODBUS Network Transceiver)

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: MOD9200D

A PC and a 10/100 Base T Ethernet Crossover Cable are required for the set up of the Transceiver.

Choose a location close to the computer, network hub, or RS485 loop. 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 input to terminals using 20 AWG wire.

TCP/IP: If using TCP/IP, use RJ45 Category 5 Ethernet cable to connect the Gateway (J2) to the network hub or computer

RS232: If using RS232 RTU/ASCII, use the MOD9200-RS232 cable (sold separately) to connect the Gateway (J1) to the serial porton the computer.

RS485: If using RS485 RTU/ASCII, use 18 gauge shielded twisted pair wire to connect the Gateway (Terminals A+ & B-) to the MODBUS master.

Refer to the configuration setup instruction manual for configuration of the MODBUS registers and logging setup. A PC is required for the setup of the transceiver.

Configuration software included.

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