



MOD9200D

MODBUS Network Transceiver



The MOD9200D is a MODBUS network transceiver using 900MHz spread spectrum technology and is compatible with any Building Automation System or PLC. Physical connection is Ethernet TCP/IP or RS-485 and supports TCP/IP MODBUS, RTU, and ASCII protocols. The MOD9200D works with any ACI wireless sensor, input concentrator, or output module. The MOD9200D can be programmed with inputs for a maximum of 50 physical wireless sensors or 100 data points (analog & digital), and 100 output points (50 analog and 50 digital) maximum. The sensors are programmed to the transceiver using the configuration software (included), a laptop and a crossover 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.

ACI offers pre-programming of wireless systems for ease of installation, saving time and cost of field setup. Prior to purchase, it is recommended to contact ACI's Technical Service Department for product selection and system design/layout.

Note: For best results, no more than three (3) repeaters should be installed per wireless system, and no more than two (2) repeaters in series with the MOD9200D.

Applications: Museums, Churches, Historical Buildings & New Construction

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, workaci.com.

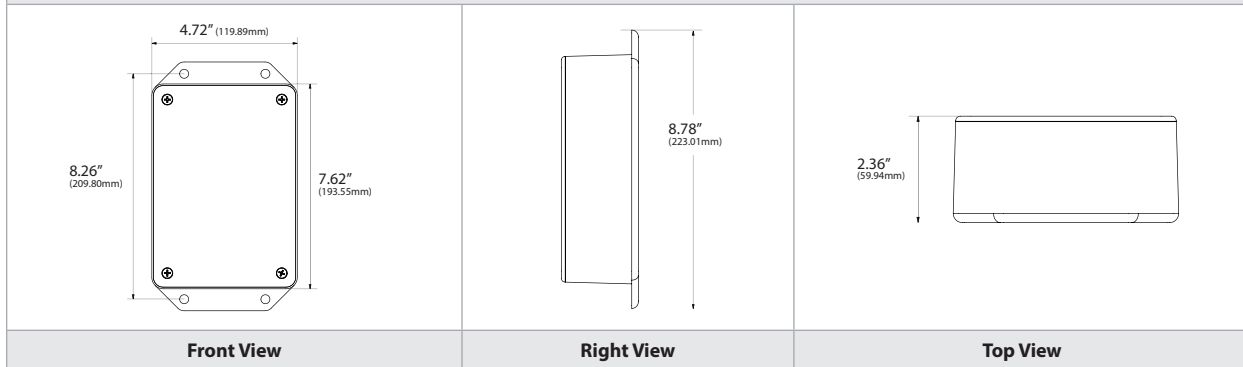
PRODUCT SPECIFICATIONS

Supply Voltage:	24 VAC, 60Hz (Full wave rectified)
Supply Current:	0.5A Nominal
PO Connections:	Screw Terminal Blocks
Wire Size:	16 AWG (1.31 mm ²) to 26 AWG (0.129 mm ²)
Terminal Block Torque Rating:	0.37 ft-lb (0.5 Nm) Nominal
Operating Temperature Range:	32 to 122°F (0 to 50°C)
Operating Humidity Range:	30 to 50% RH, Noncondensing
Storage Temperature Range:	-4 to 176°F (-20 to 80°C)
Data Protocol:	IEEE 802.15.4-2003/2006
RF Characteristics:	900 MHz, Operating Frequency 10 channels between 902 – 928 MHz Transmitter Power: 11 dBm Receiver Sensitivity: -11 dBm
Transmission Distance:	200 – 300 ft horizontally depending on building type and constructions, and typically one floor above and below the transceiver vertically
Transceiver inputs:	Maximum 100 Analog or Digital Inputs (Max. 50 sensors/modules per transceiver)
Transceiver Outputs:	50 Analog, 50 Digital points (100 total)
Physical Network Connection:	TCP/IP, RS-485 RTU/ASCII
Communication Wire:	RS-485: Belden 9841 TCP/IP: Cat 5 cable
Termination Resistor:	120 Ω (Not provided by ACI)
Configuration Software:	Included; Data registers need to be configured prior to use • Laptop with Windows 98, XP, Vista, Windows 7 or Windows 10, Ethernet port and 10 GB memory
System Requirements:	• Direct connection from PC to MOD9200BNT: RJ45 Crossover Cable (not provided by ACI) • IP Address of PC must have static address of 192.168.0.2 or above
Modbus Registers:	Refer to the user manual for Modbus Application Parameters
Enclosure Material Flammability Rating:	ABS Plastic UL94-5VA
Product Dimensions:	(L) 8.78" (223.01 mm) x (W) 4.72" (119.89 mm) x (H) 2.36" (54.94 mm)
Product Weight:	2.20 lbs (1.00 kg)





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **MOD9200D** -OR- **131045**

Model #	Item #	Description
MOD9200D	131045	Wireless Spread Spectrum Network MODBUS Transceiver

ADDITIONAL ORDERING

Model # Example: **RR2552BE** -OR- **130694**

Model #	Item #	Description
RR2552B	130662	Two Way Repeater, Standard Enclosure
RR2552BE	130694	Two Way Repeater, NEMA 4X Enclosure
WIRELESS SETUP FEE	132618	Pre-programming Wireless System (One fee per each Transceiver ordered)