

## The MCS-PORTAL-N Specifications & Description

### Physical Characteristics

Input power .....	24vac ±10% 50/60Hz @ 77°F (25°C) ambient
Portal Interface (Port A).....	One jumper selectable EIA-232 / EIA-485 terminal block
Portal Interface (Port B).....	One EIA-232 terminal block
Protocols Supported.....	BACnet (Conformance Class 3), LonTalk, Modbus, Johnson N2
Memory .....	1MB Flash memory and 1MB of non-volatile battery backed RAM
Battery.....	7 year lithium battery provides a minimum of 10,000 hours of data retention during power outages
Fault Indication.....	Hardware watchdog timer
Operating Temperature.....	0°F to +130°F (-17.8°C to +54.4°C)
Protection.....	Surge & transient protection circuitry for power & communication
Available Enclosure.....	Box Mount (MCS-PORTAL-B)



Part # MCS-PORTAL-N

### Product Description

The MCS-PORTAL-N is a microprocessor based communication device that provides translation between the MCS protocol and BACnet, LonTalk, Modbus and Johnson N2 protocols. The MCS-PORTAL-N is available in EIA-232 (Point-To-Point), EIA-485 (multidrop or daisy chain configuration) and ARCnet 156K baud over EIA-485.

The MCS-PORTAL-N provides the user with 3 communication ports, one of which can be configured for BACnet, LonTalk, Modbus or Johnson N2. Port A connects to the MCS micro controller using an EIA-485 connection and MCS protocols. Port B connects to BACnet, LonTalk, Modbus or Johnson N2 using EIA-232 (point to point) or EIA-485 (point to point). An auxiliary device port connects to Automated Logic's CMnet using EIA-485 (BACnet over ARCnet 156 KBPS).

The MCS-PORTAL-N transmits information from the MCS-8 micro controller to the BACnet, LonTalk, Modbus or Johnson N2 network when requested. Information that can be transmitted include the status on control points, alarm information, digital inputs, analog inputs or setpoints.

The network also provides the user with the ability to enable or disable the chiller package or to change the package's temperatures. Additional functions can be programmed at the request of the vendor.

### Options

-B1 .....	BACnet communicating with one MCS-8 micro controller
-B2 .....	BACnet communicating with two MCS-8 micro controllers
-L1 .....	LonTalk communicating with one MCS-8 micro controller
-M1 .....	Modbus communicating with one MCS-8 micro controller
-N1 .....	Johnson N2 communicating with one MCS-8 micro controller

Extremely important to building owners and facility managers is the ability to show information graphically. The MCS-PORTAL-N coupled with Automated Logic's SuperVision™ intuitive graphical software allows the user to interface with dynamic, color-coded graphics. The following is a brief list of key features & benefits:

- Use of color for ease of use & understanding
- Graphical trend history captures savings & aids diagnostics
- Data exchange with other Windows® applications
- Real-time graphic representations of control algorithms
- Password protection
- Remote or local communication