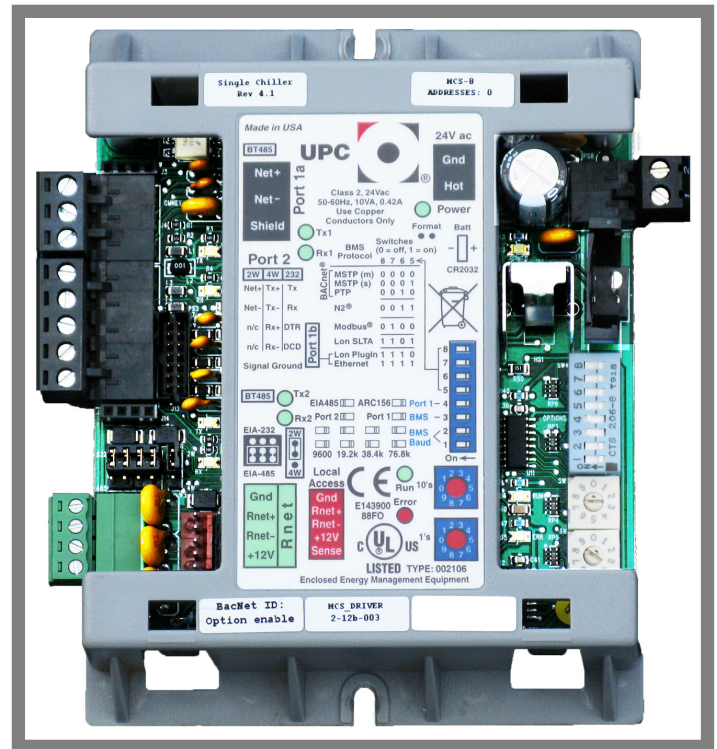




## The MCS-UPC Specifications & Description

### Product Specifications

Input power.....	24vac ±15% 50/60Hz 10VA power consumption (single Class 2 source only, 20VA or less)
Environmental Operating Range.....	-22°F to 150°F (-30°C to 65.5°C) 10 to 95% relative humidity, non-condensing
Port 1.....	ARCNET156 or EIA-485 communication, dip switch select- able
Port 2.....	Jumper configurable for EIA-485 mode or EIA-232. Supports communications protocols BACnet MS/TP, BACnet PTP, Modbus (RTU or ASCII), N2, or LonWorks (through a SLTA)
Status Indication.....	Visual (LED) status of power, network communication, running and errors
Protection.....	Built-in surge and transient protection circuitry - internal solid- state polyswitches on the incoming power and network connections
Listed by.....	FCC, UL, cUL, and CE listed



Part # MCS-UPC

### Product Description

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

One of the unique features about the MCS-UPC is the ability to select the open protocol you want to use with the simple flip of a dip switch. Choose from BACnet, Modbus, N2 Bus or LonWorks.

The MCS-UPC provides the user with 2 communication ports, one of which can be configured for BACnet, LonTalk, Modbus or Johnson N2. Port 1 connects to the MCS micro controller using an EIA-485 connection and MCS protocols. Port 2 connects to BACnet, LonTalk, Modbus or Johnson N2 using EIA-232 (point to point) or EIA-485 (point to point).

### Options

-CHL.....	1 Chiller controller
-2CHL.....	2 Chiller controllers with limited points
-CHL&LWC.....	1 Chiller & 1 Loop Water controller with limited points
-LWC.....	1 Loop Water controller
-LONTALK.....	LonTalk communicating with one MCS-8 or MCS-MAGNUM controller. Not field selectable, must be programmed at MCS factory. Includes a SLTA-10 and cable.

The MCS-UPC transmits information from the MCS 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.