

Network Control Unit with Built-in I/O

- **CommStar Network Control Unit**
- **RS485 CommStar Network Port**
- **3 RS232 Ports**
- **X10 Bi-Directional Port**
- **I/O Expansion Port**
- **8 Relays Outputs**
- **16 Digital Inputs**
- **8 Analog Inputs**
- **Flash Reprogrammable Firmware**
- **Downloadable Schedules**



NETWORK CONTROL UNIT

The CS48 is a powerful, programmable, real time scheduler and event manager. It includes support for the CommStar RS485 network devices.

The NCU programming features include:

- 8 SPDT 1A Relay Outputs
- 16 Digital Inputs, 4-24V Voltage or Contact Closure
- 8 Analog Inputs, 8 Bit A/D, 0-5VDC
- Real Time Clock/Calendar with Battery Backup
- 1000 Schedule Events
- 256 IF/THEN/ELSE Macros
- 256 Variables
- 32 Timers
- Status LEDs

I/O Expansion Port: Aux bus supports up to four CSIOX I/O boards, each with 8 relay/16 Digital/8 Analog Inputs. Also supports IR Xpander for bi-directional IR control.

CommStar RS485 Network: The CS48 includes the CommStar RS485 Network Port. This 4 wire network (2 power, 2 data) can be up to 4000' long and supports up to 255 devices. Aux power provides 12VDC at 500mA for network devices.

RS485 Expansion: An external Model 8AH485 8 channel Star Wiring Hub can be connected to the RS485 port. This allows home run wiring for the CommStar network devices. Additional hubs can be cascaded off the main hub for 64 or more devices.

CommStar Network Peripherals. The CS48 RS485 CommStar network controls Keypads, Thermostats, Zone Controls, Sensors, Relays and many other RS485 network products. The CS48 has built-in support for:

- 32 - Thermostats/sensors
- 16 - KPL7 Keypads
- 16 - KPG8 Keypads
- 16 - 8 Channel Relay Control Units
- 16 - 8 Channel Digital Input Control Units

WinEVM PC Host Software. Included with the CS48 is the powerful PC Windows based *WinEVM* Event Manager Software. WinEVM provides for setup and control of the CS48 NCU and network devices. This allows the creation of an integrated network of devices and subsystems via schedules and IF/THEN/ELSE macros. Once created on a PC, these schedules and device setups and definitions are downloaded into the NCU program memory. While not required to run the NCU, WinEVM can remain connected to the NCU to monitor and directly control the network from the PC.

Power: 16VAC 20VA. Transformer included.

Size: 12" x 9" x 1.75".

Ordering Information:	Model	Description	Part Number
	CS48	Network Control Unit	001-00544