

# Serial-Stat™



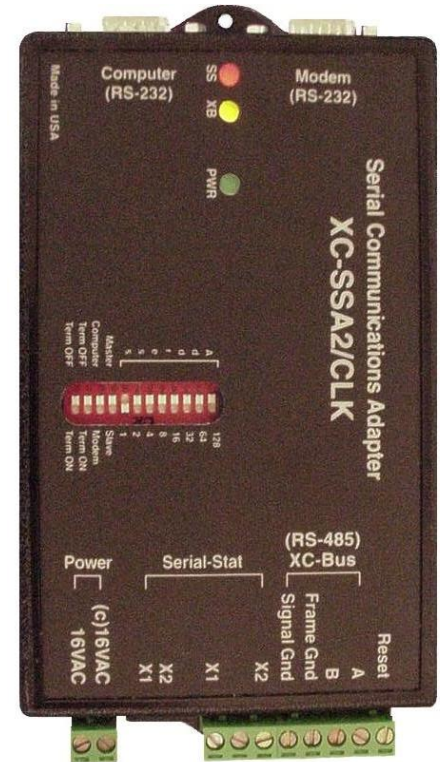
## ***XC-SSA2/CLK Serial-Stat Network Controller***

### ***Expandable for Large Networks***

- CONTROL UP TO 32 SERIAL-STATS
  - REAL-TIME CLOCK/CALENDAR
- (2) RS-232C and (1) RS-485 Port

#### ***GENERAL DESCRIPTION***

The XC-SSA2/CLK network controller supports up to 32 Serial-Stat thermostats. The XC-SSA2/CLK includes a real-time clock/calendar that allows simple, yet robust environment control. The network controller enables simple integration with any control system, automation system or personal computer. Two RS-232C and one RS-485 ports are included with the adapter for complete versatility of environments. Removable screw terminals are included for power, RS-485 and the Serial-Stat bus for communications, and a serial cable is included for RS-232C connection. The XC-SSA2/CLK accepts simple ASCII commands using a published open protocol and replies with readable text answers. The entire family of controllers has built-in intelligence to correct illegal thermostat settings that might damage equipment.



### ***Standard Features***

#### ***Hardware***

- Two RS-232 Serial Ports; One RS-485 Serial Port
- Allows full control of up to 32 thermostats on each adapter
- No additional hardware needed at the thermostat
- Any Serial-Stat can be up to 1000' away; Combined total of 4000' for all thermostats
- Any mix of home-run, daisy-chain or multi-drop wiring can be used
- Only two wires needed for communications with the thermostat using CAT5 cabling
- Advanced protection circuitry for data inputs/outputs; All input/output/power on removable connectors
- Adapters Addressable from 1 – 255
- Non-volatile clock/calendar setpoint memory
- Integrated Real-Time Clock/Calendar allows 1,000 scheduled programs

#### ***RS-232 Features***

- One port connects directly to any PC or control system
- One port connects directly to the XC-MODEM External Modem or XC-LAN232 Ethernet Adapter

#### ***RS-485 Features***

- 4-wire multi-drop configuration (2 data, signal ground, frame ground)
- Up to 255 adapters on multi-drop (total of 8,160 thermostats)
- Supports any combination of XCI controllers, sensors and modules for a total of 255 units

#### ***Software/Manuals***

- Open ASCII Protocol allows custom software development
- Two Operation Modes with ASCII Protocol; ***Polled, Periodic Update***
- ASCII Protocol Summary and complete Protocol Manual available
- Installation Manual included; Pre-wire Manual available
- XCI Command Center, Windows-based software included
- All Manuals/Software/Application Notes available on the web site

**Note : Specifications subject to change without notice.**

# SPECIFICATIONS

Rated Voltage :	16VAC nominal, +/- 20 %
Rated A.C. Current :	250 mA maximum
RS-485 Mode :	Master / Slave; front panel switchable
RS-485 Addressing :	1 - 255; front panel switchable
RS-485 Termination :	Front panel switchable
Comm Port Priority Control:	Modem or Computer front panel switchable
Indicator LEDs :	PWR (power)           blinking - normal operation; steady - system interruption occurred
	SS (Serial-Stat)       flashing - transmission in progress
	XB (XC-Bus)           flashing - transmission in progress
Dimensions :	3.6" H x 6.25" W x 7/8" D (91mm x 159mm x 22mm)
Power Terminations :	16VAC - power, 16VAC(c) - power common
Communication Terminations :	X1 - comm(+), X2 - comm(-); alt. connection via RJ-45 Connector
RS-232 Terminations :	Modem - 9-Pin Female D-Sub, pins 2, 3, 5; 7 & 8 opt. (RTS/CTS) Computer - 9-Pin Male D-Sub, pins 2, 3, 5; 7 & 8 opt. (RTS/CTS)
RS-485 Terminations :	A (data +), B (data -), Signal Ground, Frame Ground
System Reset Terminations:	Reset

## Typical Wiring Diagram

