# NETWORK CONTROLLER

Microprocessor Based NETWORK CONTROLLER Datasheet. Modified 06-03-16 by RL

NETWORK CONTROLLER

The NETWORK CONTROLLER can support up to 254 TSTATs. Communication options are 2 Input Com Ports (Ethernet or RS232) for PC, and 2 Output Com Ports (RS485 or XBUS) for TSTATs. This device follows MODBUS communication Protocol and can be easily installed within existing systems. The NETWORK CONTROLLER includes a real time clock/calendar and a large memory space, which allows customized scheduling needs to the end user.
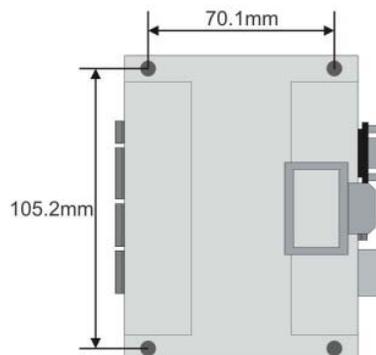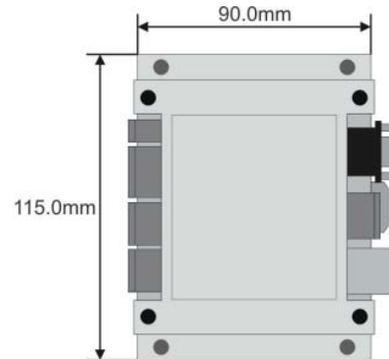
Highlights:
- Control up to 254 TSTATS
- MODBUS Communication Protocol
- 2 baudrate settings: 9600bps and 19200bps
- Real Time Clock/Calendar
- Integrated daylight savings
- Fully Programmable Scheduling scheme
- 20 weekly schedule, 16 annual schedule assigned to any TSTATs
- No volatile clock/calendar setpoint memory
- PC Communication: Ethernet Port or RS232 Port
- TSTAT Communication: RS485 Port or XBUS Port
- In System Programming over the network
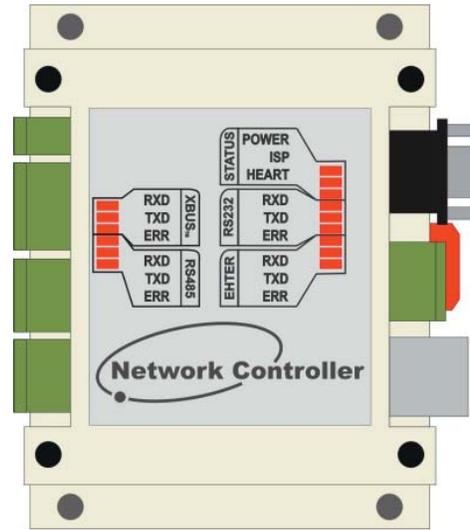
TECHNICAL DATA

Supply voltage…….....…...………….....……..…….....12~24Vac ±20%, 50-60Hz
12~24Vdc ±20%, 50-60Hz

Power consumption…….....…...……....…....……....……........80mA at 24Vdc

Dimensions.................................... 40.5mm H x 90.0mm W x 115.0mm D
1.59" x 3.54" x 4.53"

Ambient temperature:
Operation…….....…...……....…....…...…........…….10-50°C (50-99°F)
Storage…………....….…...……....……...............…2-50°C (35-120°F)

Material, enclosure……….....….…....…...……..................…Flame proof plastic

Enclosure rating………………....…........……….........…..................IP31

Temperature sensor……....…...……....…….....…........10K thermistor ±0.5°C

Colour……………...…....…....…...…....….....…..Grey

Weight …………….....…...…...........…....…....…...…...................………. 180g

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INSTALLATION

Cable Wiring
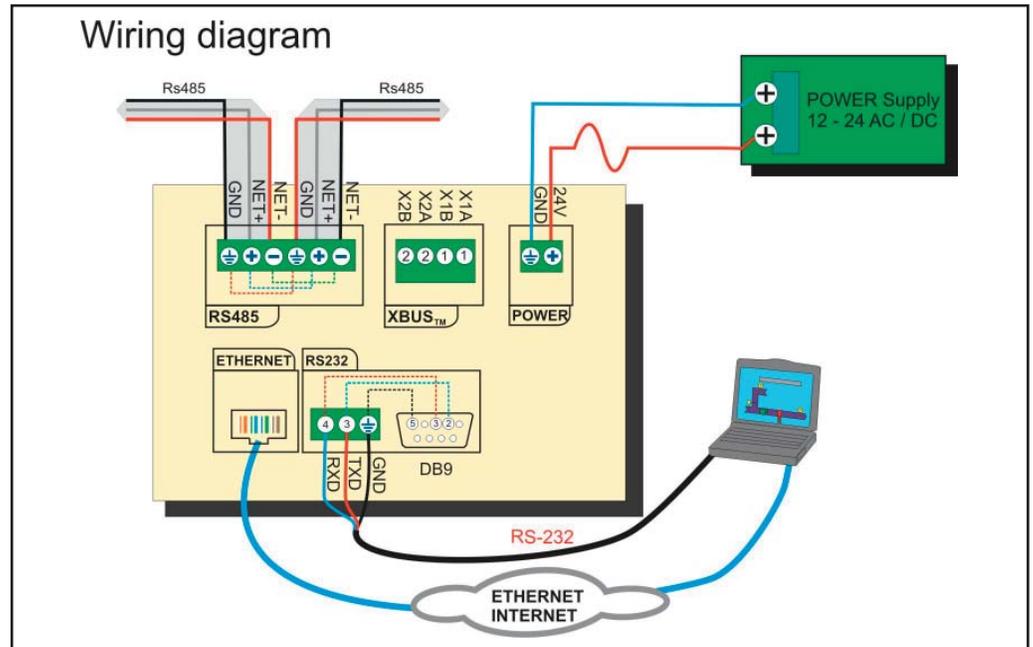
• Standard Ethernet Cable
• Standard RS232 Cable

Figure 1. Wiring Diagram

SCHEDULING

Thermostat scheduling is a simple and effective method to gain full use of your HVAC system while saving time and money. Knowing when to turn On and Off your HVAC system, changing temperature set point and having desirable temperature deadbands are simple methods to save energy. Energy conservation experts say that you can save about 2 percent on your heating bill for each degree you lower your thermostat. Setting your thermostat back for 8 hours during nighttime can save a tremendous amount.

Weekly scheduling provides the ability to adjust indoor temperature levels on a daily basis. Settings such as when the room is typically occupied or unoccupied, their desired day time and night time set points contributes to a more efficient system.

Annual scheduling provides the flexibility to store special holidays where the need for high heating or cooling is deemed unnecessary.

NETWORKING CAPABILITIES

The NETWORK CONTROLLER has a built-in network enabler module with its own TCP/IP ready microprocessor. Connected to a hub its capabilities are only limited to the network. Remote management easily becomes a possibility with this device.