T3-Nano Programmable Modbus Bacnet IP RS485 Router

Description

T3-nano controller is a programmable controller and a low-cost high performance programmable controller.
It can stand DDC panel alone or in a multiple network system with full communication capabilities.The multiple communication ports allow the controller to operate on a network or host sub networks and to commnuicate with local and remote operators simultaneously.Setup and programming are done on a PC not necessary to connect to live hardware as it is the case with many systems. when the program is ready for on-site testing, connect it to a live panel and download the T3000 software. Programming can be done remotely over the network and modem connections as well. The network system is very fiexible and economical for the installation.

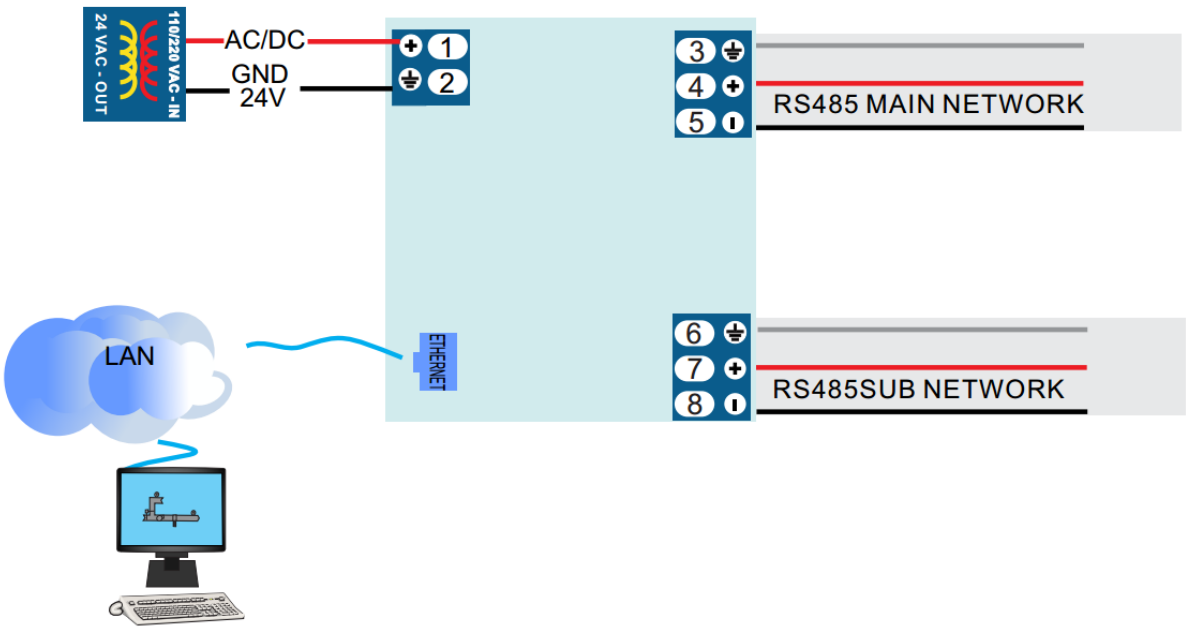
Highlights

- Sturdy construction, consistently gets good comments from our clients.
- UL listed ABS enclosure with rubberized texture creates a high end feel
- Connect over Ethernet or RS485
- Supports Modbus and Bacnet protocols simultaneously.
- Starter space source code is avaliable
- T3000 front end is free and open source: http://tinyurl.com/n7kkqp6
- Compiled version of the front end is here: https://tinyurl.com/y7uyu9n3

Specifications

Interactive dynamic color graphics
Industry standard Bacnet & Modbus protocols
User programming, built in networking features
16 Control Basic programs
8 Weekly routines, 4 annual routines
128 User variables
16 PID controllers
8 passwords or users
Power Supply Voltage: 24V AC/DC
Maximum Power Consumption:6W
RS485 sub baudrates: 9600, 19200
RS485 main baudrates: 1200~921600

Wiring Diagram



Introduction to Power over Ethernet (POE)
Power over Ethernet (POE) is a technologythat enables the simultaneous transmissionof data and electricity over Ethernet cables.Here is an introduction to it:
Working Principle:
The POE power supply system mainly consists of a Power Sourcing Equipment (PSE) and a Powered Device (PD). The PSE is responsible for injecting electricity into the Ethernet cable, typically installed in devices such as network switches. The PDon the other hand, is a device capable of receiving electricity, such as wirelessaccess points and IP cameras. The PSE identifies whether a device is a POE- supported device by detecting itscharacteristics.Once confirmed, it suppliesthe corresponding amount of electricityaccording to the PD's requirements.
Power Supply Methods:
Mid-span Powering: A POE injector isadded in the middle of the Ethernet cableto iniect electricity into the cable withoutaffecting data transmission. This methodis suitable for existing network cablingand does not require the replacement ofswitches and other devices.
End-span Powering: A switch with POEfunctionality is used to directly transmitboth electricity and data to the powereddevice. This method is convenient forcentralized management and-maintenance and is a more commonpower supply method.
Advantages
Simplified Cabling: Only one Ethernetcable is needed to transmit both dataand electricity simultaneously, reducingthe laying of power cables and loweringthe cost and complexity of cabling.
Flexibility and Convenience: It enablesconvenient power supply to devices inthe network, without being restricted bythe location of power outlets, making iteasier for device installation andmovement.
Safety and Reliability: The POE powersupply system has functions such asovercurrent and overvoltage protectionensuring the safe operation of devicesAt the same time,it also reduces potential safety hazards such as
electrical fires.

Dimension