

Features

- Surge-protected Universal Inputs with 10-bit resolution.
- UL listed ABS enclosure with rubberized texture creates a high end feel.
- The RS485 port has separate upstream and a downstream connectors to make troubleshooting easier.

• Software configure the I/O ranges with the free T3000 software or by writing to the registers with your own software.

• Each input as well as the RS485 connections have a separate screw terminal, there's no need to gang two wires under one terminal for any of the terminations.

• Each output has a hand-off-auto switch for easy troubleshooting and overrides.

• Baudrates: 9600, 19200, 38400, 57600,76800 and 115200bps.

• The T3 modules support Bacnet over MSTP and TCP/IP as well as Modbus.

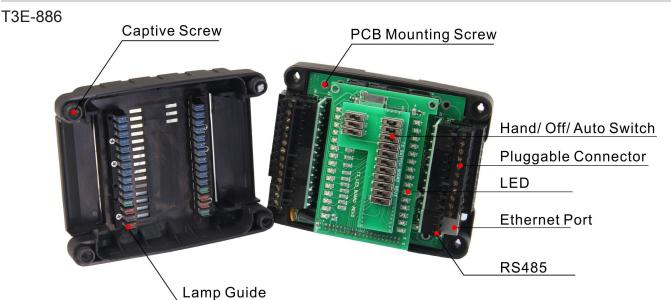
• In this first 10 seconds period, heartbeat LED on the T3E-886 will be flashing, as the rhythm of 2 fast 1 slow, to show the device is in ISP mode now.

• Source code for the modules is available with your first purchase.

• T3000 front end is free and open source: http://tinyurl.com//n7kkqp6

• Compiled version of the front end is here: http://tinyurl.com/y7uyu9n3

Highlights



Specifications

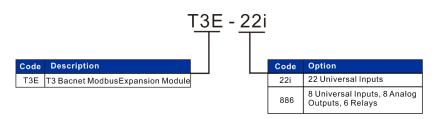
- T3E-22i analog input: 22 AI@0-5V, 0-10V,
- 4-20mA, 10K Type2 NTC
- T3E-886analog input: 8 AI@ 0-5V, 0-10V, 4-20mA,10K Type2 NTC.
- T3E-22i, T3E-8o digital input: DI@pulse counter

 T3E-886 analog output: 8 outputs@0-10V Accuracy: 0.01V

• T3E-886relay output: 6 relay dry-contact outputs DC12V, 3A@125VDC

- Baudrate: 9600, 19200, 38400, 57600, 76800, 115200
- Operating temperature: -30~70°C (-22~158°F)
- Supply voltage: 15~24VAC/DC ±10%, 50-60Hz
- Power consumption: 100mA at 15~24VAC/ DC
- Storage temperature: -40~85°C
- Operating ambient humidity: 0-80 %Rh
- Communications: RS485, Ethernet
- Enclosure color: Black

Part Number Scheme



Approvals

| Plastic Enclosure | PA66 |
|-------------------|---|
| PCB | FR-4 Epoxy Glass Cloth UL file NO. E360179 |
| Terminal Block | PA66 UL file NO. E365137 |
| Relay | UL file NO. E332982 |

Wiring Diagram

The T3E-22i has 22 inputs, 2 RS485 terminals that share the same serial port, and 1 Ethernet port.

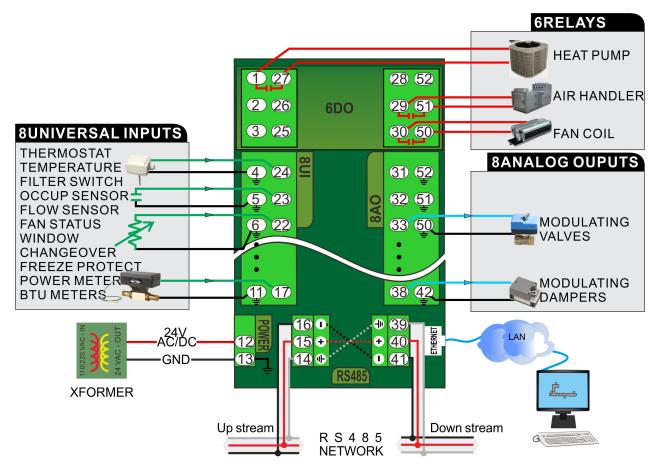
11INPUTS 11INPUTS THERMOSTAT TEMPERATURE 1 27 **22INPUTS** 28 52 FILTER SWITCH 29 51 2 26 OCCUP SENSOR FLOW SENSOR 3 25 30 50 FAN STATUS WINDOW CHANGEOVER FREEZE PROTECT POWER METER **BTU METERS** .11 17 38 42 **16** 🕩 39 AC/DC 12 15 ÷ + 40 LAN 14 🕂 (RS485) 🔍 41 GND (13)**XFORMER** R S 4 8 5 NETWORK

The T3E-22i are amazing! The features that are most amazing:

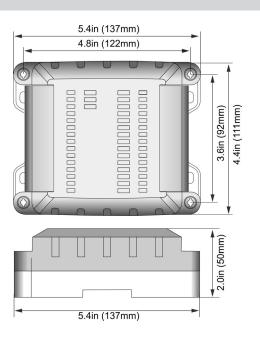
- Software Configurable I/O
- Ground Screw terminals for all 22 inputs.
- Feed through to aide in daisy chaining RS485 connection
- 22 Pulse counters
- Higher Baud Rates
- BACNet support
- Supports Modbus TCP
- Cad is available, 3D and 2D acad/corel draw vector art.

T3-22i WIRING DIAGRAM

The T3E-886 has 8 inputs, 8 outputs, 6 relays, 2 RS485 terminals that share the same serial port, and 1 Ethernet port.



Dimensions



Standard Operation

Inputs

Each input of a T3 Module can be configured in 1 of 5 ways:

0-5V 0-10V 4-20mA 10K type2 NTC pulse counter

The value of each input is stored as a 10-bit number in the respective modbus register.

The maximum values for the 5V, 10V, 20mA is 1023, and pulse counter configurations would produce a reading of 65536*65536=4294967296. Each input has a corresponding LED which will light up if the value of the input is greater than 512.

Here following one table showing the info of pulse input.

| Model | Number | of inputs | Register address | Pulse |
|---------|------------|-----------|------------------|--|
| T3E-22i | T3E-22i 22 | | 100-121 | High Speed: Support up to 1KHz pulse input |
| 135-221 | | 12-22 | 122-143 | Low Speed: Support up to 10Hz pulse input |
| T3E-886 | 8 | | 116-131 | Low Speed: Support up to 10Hz pulse input |

T3E-22i high and low speed counters configured in T3000 software

| aetwork 1 input1 1022 - 5 500 iniPanel:65669-100-192.168.0.14 2 input3 1022 - 5 500 90922-1 90923-2 5 500 5 500 90923-2 90924-3 90226-5 90925-4 90926-5 900 - 5 500 90923-2 90925-4 90926-5 900 - - 5 500 90932-6 10 - - 5 500 9 - - 5 500 90933-7 10 - - 5 500 9 - - 5 500 90935-9 90 - - - - 5 500 9 - - 5 500 90935-9 10 - - - - - - 5 90 9 - - 5 500 9 - - 5 500 0 10.0 - 0 10.0 - 0 0 | ->Default_Building Jlt_Building | ▼ ₽ × Number | Name | Value | Range | Filter | Calibra |
|--|------------------------------------|---------------------------|---|---------|-----------|---------------|---------|
| 111Panel:65669-100-192.168.0.14 2 1002 - 5 500 90922-1 10013 1022 - 5 500 90923-2 90924-3 5 10put6 1022 - 5 500 90925-4 90932-6 10put7 1022 - 5 500 90932-6 90933-7 90935-9 10 11 11 OK Cancel 90935-9 10 11 1.TYPE2 10K C - 8. TYPE3 10K C - 8. TYPE3 10K C - 9. TYPE3 10K F 10. NO USE 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F 10. NO USE 0. Concel 0. True Statistic 55766-30-192.168.0.15 11.0-SV 9. TYPE3 10K F 11.0-SV 10. NO USE 0. True Statistic 55769-253-192.168.0.15 0. True Statistic 55769-253-192.168.0.15 0. True Statistic 55769-253-192.168.0.15 0. True Statistic 5 | | 1 | Input1 | 1022 | - | 5 | 500 |
| 90922-1 Input4 1022 - 5 500 90923-2 5 Input5 1022 - 5 500 90924-3 90926-5 10 1 1022 - 5 500 90925-4 90932-6 90 - 5 500 7 1nput6 1022 - 5 500 90932-6 90 - - 5 500 9 - 5 500 7 1nput6 1022 - 5 500 7 1nput7 1022 - 5 500 90932-6 90 - - - 5 500 10 11 11 12 0 0 Unused High Speed Count 13 10 NO USE 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <td></td> <td>2</td> <td>Input2</td> <td>1022</td> <td>-</td> <td></td> <td>500</td> | | 2 | Input2 | 1022 | - | | 500 |
| 90922-1 5 Input5 1022 - 5 500 90923-2 - 5 500 7 Input6 1022 - 5 500 90925-4 90926-5 90 - 5 500 9 90932-6 90933-7 9 - - 5 500 90935-9 90936-10 - 1.17VFE2 10K C 8 8. TYPE3 10K C 9. TYPE3 10K C 90936-10 - 1.17VFE2 10K F 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F 10. NO USE 1015t 1015t 10 - 0 0. Unused - 9. TYPE3 10K F 10. NO USE 11. OK 13.0-20 ma 12.0-10V 13.0-20 ma 14. High Speed Count 13.0-20 ma 14. High Speed Count 13.0-20 ma 14. High Speed Count 14. High Speed Count 1 | MiniPanel:65669-100-192.168.0.14 | | | | - | | |
| 90923-2 6 Input6 1022 - 5 500 90924-3 90925-4 90925-4 90926-5 90926-5 90933-7 90933-7 90935-9 90935-9 90936-10 11 OK Cancel 0. Unused High Speed Count 90935-9 90936-10 11 1.TYPE2 10K F ® 8. TYPE3 10K F 9. TYPE3 10K F 90936-10 10 1.TYPE2 10K F ® 8. TYPE3 10K F 9. TYPE3 10K F 1015t 10.15t 10. NO USE 9. TYPE3 10K F 10. NO USE 1015t 5.0FF/ON 11.0-5V 10. NO USE 1020 5.0FF/ON 11.0-5V 11.0-5V 1020 5.0FF/ON 12.0-10V 13.0-20 ma 10201 6 Low Speed Count 9. 14High Speed Count 9. 14High Speed Count 10235 TStat6:65566-30-192.168.0.15 7. Lighting Control 9. 14High Speed Count 10235 TStat6:65566-30-192.168.0.15 7. Lighting Control 9. 14High Speed Count 10235 7. Lighting Control 9. 14High Speed Count 9. 14High Speed Count 1024 7. Lighting Control 9. 14High Speed Count | 90922-1 | | | | - | | |
| 90924-3 7 Input7 1022 - 5 500 90925-4 90926-5 10022 - 5 500 90932-6 90933-7 90933-7 11 OK Cancel 90935-9 90936-10 0. Unused High Speed Count 90936-10 1.TYPE2 10K C 0. Unused 8. TYPE3 10K C 90936-10 0. Unused 9.9 YEB3 10K C 0. Unused 1015t 0. Unused 9.9 YEB3 10K F 0. Unused 1015t 0. Unused 9.9 YEB3 10K F 0. Unused 9.9 YEB3 10K F 1015t 0. Unused 9.9 YFB3 10K F 0. Unused 9.9 YFB3 10K F 1015t 0.0 Unused 0. Unused 9.9 YFB3 10K F 0. Unused 9.9 YFB3 10K F 1020 10.NO USE 10.NO USE 11.0-5V 0.0 NO USE 0.1 NO USE 10201 1020 5.0FF/ON 12.0-10V 0.1 High Speed Count 0.1 3.0-20 ma 10235 TStat6:65789-253-192.168.0.15 7. Lighting Control 0.1 High Speed Count 0.1 High Speed Count 10235 7. Lighting Control 0.1 High Speed Count </td <td>90923-2</td> <td></td> <td>and the second se</td> <td></td> <td>1</td> <td></td> <td></td> | 90923-2 | | and the second se | | 1 | | |
| 90925-4 8 Input8 1022 - 5 500 90926-5 90 | 90924-3 | 7 | | | - | | |
| 90926-5 90932-6 90933-7 90935-9 90935-9 90936-10 iniPanel:90023-1-192.168.0.15 ID15t ID20 ID20 ID201 ID201 ID201 ID235 TStat6:65566-30-192.168.0.15 TStat6:65589-253-192.168.0.15 TStat6:65789-253-192.168.0.15 TStat6:65789-253-192.168.0.15 TStat6:65789-253-192.168.0.15 TStat6:65789-253-192.168.0.15 TStat6:65789-253-192.168.0.129 HUM R -22110000022-254-192.168.0.183 Port | | 8 | Input8 | 1022 | - | 5 | 500 |
| 90932-6 90933-7 90933-7 0. Unused 90935-9 14 90936-10 1.TYPE2 10K C iniPanel:90023-1-192.168.0.15 8. TYPE3 10K F ID15t 9. TYPE3 10K F 10198 9. TYPE3 10K F 1020 10. NO USE ID201 11.0-SV ID235 13.0-20 ma TStat6:65766-30-192.168.0.15 7. Lighting Control TStat6:65789-253-192.168.0.15 9. 14High Speed Count IniPanel:90049-1-192.168.0.15 9. 14High Speed Count HUM R 9. 12.0-10V +22t10000022-254-192.168.0.183 9. 14High Speed Count Port 9. 14High Speed Count | | 1000 million and a second | | | | | |
| 90932-6 12 0. Unused High Speed Count 90933-7 13 1.TYPE2 10K C 8. TYPE3 10K C 90936-10 15 2.TYPE2 10K F 9. TYPE3 10K F iniPanel:90023-1-192.168.0.15 17 3.0-100% 10. NO USE ID15t 110-5V 110-5V 110-5V ID198 5.OFF/ON 12.0-10V 12.0-10V ID20 6 Low Speed Count 13.0-20 ma 13.0-20 ma ID201 7. Lighting Control 14High Speed Count ID235 7. Lighting Control 14High Speed Count miPanel:90049-1-192.168.0.15 14High Speed Count 13.0-20 ma HUM R HUM R 14High Speed Count 14High Speed Count -221:10000022-254-192.168.0.183 -221:10000022-254-192.168.0.183 -201 | | | Units Number : | 14 OK | | Cancel | |
| 90935-9 14 1.TYPE2 10K C 8. TYPE3 10K C 90936-10 2.TYPE2 10K F 9. TYPE3 10K F iniPanel:90023-1-192.168.0.15 16 3.0-100% 10. NO USE ID15t 4.ON/OFF 11.0-5V ID20 5.OFF/ON 12.0-10V ID201 6 Low Speed Count 13.0-20 ma ID235 7. Lighting Control 14 High Speed Count TStat6:65789-253-192.168.0.15 9. TYPE3 10K F 9. TYPE3 10K F iniPanel:90049-1-192.168.0.15 9. TYPE3 10K F 9. TYPE3 10K F HUM R 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F -221:10000022-254-192.168.0.183 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F Port 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F 9. TYPE3 10K F | 90932-6 | | | | | | |
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| 90936-10 13 0 2.TYPE2 10K F 9. TYPE3 10K F iniPanel:90023-1-192.168.0.15 16 3.0-100% 10. NO USE ID15t 4.0N/OFF 11.0-5V ID198 20 5.0FF/ON 12.0-10V ID201 6 Low Speed Count 13.0-20 ma ID235 7. Lighting Control 14 High Speed Count TStat6:65566-30-192.168.0.15 9. TYPE3 10K F 9. TYPE3 10K F HUM R 20 7. Lighting Control 14 High Speed Count -221:10000022-254-192.168.0.183 - - - | 90935-9 | | 1.TYPE2 10 | < C | 0.8 | TYPE3 10K | c |
| niPanel:90023-1-192.168.0.15 17 3.0-100% 10. NO USE ID15t 4.ON/OFF 11.0-5V ID198 9 5.OFF/ON 12.0-10V ID20 6 Low Speed Count 13.0-20 ma ID201 7. Lighting Control 0 14 High Speed Count TStat6:65566-30-192.168.0.15 0 14 High Speed Count niPanel:90049-1-192.168.0.129 0 0 14 High Speed Count HUM R 221:10000022-254-192.168.0.183 0 0 0 ort 0 0 0 0 0 | 90936-10 | | 2.TYPE2 10 | (F | | | |
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| 19 20 5.0FF/ON 11.0-5V 20 5.0FF/ON 12.0-10V 20 6 Low Speed Count 13.0-20 ma 22 7. Lighting Control 14 High Speed Count 235 7. Lighting Control 14 High Speed Count 25 5stat6:65566-30-192.168.0.15 14 High Speed Count 20 7. Lighting Control 14 High Speed Count 20 7. Lighting Control 14 High Speed Count | | 18 | A ON/OFF | | | | |
| ID20 21 6 Low Speed Count 13.0-20 ma ID201 7. Lighting Control 13.0-20 ma ID235 7. Lighting Control 14 High Speed Count TStat6:65566-30-192.168.0.15 7. Lighting Control 14 High Speed Count Panel:90049-1-192.168.0.129 7. Lighting Control 14 High Speed Count HUM R 7. Lighting Control 14 High Speed Count t 14 High Speed Count 14 High Speed Count | | | - | | | | |
| 22 © 7. Lighting Control © 14 High Speed Count 10 235 17 Stat6:65566-30-192.168.0.15 Panel:90049-1-192.168.0.129 HUM R 21:10000022-254-192.168.0.183 t | | | States and States | | | | |
| ID201 7. Lighting Control 14 High Speed Count 14 High Speed Count 15 tat6:65769-253-192.168.0.15 16 and 192.168.0.129 HUM R 221:10000022-254-192.168.0.183 | ID20 | | | | - | | |
| TStat6:65566-30-192.168.0.15 TStat6:65789-253-192.168.0.15 iniPanel:90049-1-192.168.0.129 HUM R -221:10000022-254-192.168.0.183 Port | ID201 | | 7. Lighting | Control | • • • • • | 14 High Speed | Count |
| TStat6:65789-253-192.168.0.15 iniPanel:90049-1-192.168.0.129 HUM R 221:10000022-254-192.168.0.183 Port | ID235 | | | | | | |
| TStat6:65789-253-192.168.0.15 iniPanel:90049-1-192.168.0.129 HUM R 221:10000022-254-192.168.0.183 Port | TStat6:65566-30-192.168.0.15 | | | | | - | _ |
| HUM R | | | | | | | |
| HUM R 221:10000022-254-192.168.0.183 | | | | | | | |
| P-221:10000022-254-192.168.0.183 | | | | | | | |
| Port | | | | | | | |
| | | | | | | | |
| m2 | Port | | | | | | |
| | Com2 | | | | | | |

Outputs

The state of each output is determined by its corresponding switch position for the T3E-886. The switches have 3 states: hand /off /auto.

| | Analog | Digital |
|------|----------------|---------------------------|
| Hand | 10V | Disconnected |
| Off | 0V | Connected |
| Auto | Register Value | Non-zero value = activate |

The registers addresses are as follows:

| Model | Number of analog outputs | Register addresses |
|---------|--------------------------|--------------------|
| T3E-886 | 8 | 100-107 |

| Model | Number of digital outputs | Register addresses |
|---------|---------------------------|--------------------|
| T3E-886 | 6 | 108-113 |

When the switch is set to the 'hand' position, the corresponding output will be switched to 10V for analog, the contact will be disconnected the relay, or 0V for sinking outputs. When it is on the 'off' position, the output will be set to 0V for analog, contact open for relay, or open circuit for sinking outputs. When it is on the 'auto' position the analog output will be set to the level stored in the corresponding MODBUS output registers. For digital or sinking outputs, a register value of 0 is to deactivate and a register value of 1000 is to activate.

These registers can be changed using the RS485 serial interface when in auto mode. For analog outputs, 0 corresponds to 0V, 1000 corresponds to 10V. For relay or sinking outputs, the output will be activated by any number greater than 0. The output registers are stored in RAM, thus the contents of each register will be lost upon power-off. Each output has a corresponding LED which will light up if the value of the output is greater than 0. For more information, please see the Standard Register lists starting on the next page.

Baudrate

T3E-22i and T3E-886 have adjustable baudrates that are set by register 15. The options include:

value 0 will set the baudrate to 9600bps value 1 will set the baudrate to 19200bps value 2 will set the baudrate to 38400bps value 3 will set the baudrate to 57600bps value 4 will set the baudrate to 115200bps value 5 will set the baudrate to 76800bps

How to Update Firmware

There are two ways to update the firmware, T3000 and ISPTool. For ISPTool, it also contains RS485 network and Ethernet. Download T3000 software http://tinyurl.com/y7uyu9n3 and install it. Then you will see two icons on your desktop, T3000 and ISPTool.



1. Use ISPTool RS485 to Update

In this section, we will first explain how to use ISPTool RS485 to update the firmware. Here take an example of T3E-886, connect T3E-80 to your computer via RS485 connectors. Connect the T3E-886 to 24V AC/DC power.

- 1) Start ISPTool software, as below photo shows, you will see RS485 setting, click and choose it.
- 2) Set broadcast ID 255 or module Modbus ID.
- 3) Choose the com port what you used and click select to choose the file you prepare to program.
- 4) Turn on the power of the T3E-80, within the first 10 seconds of powerd on, click flash.

| 😾 ISP Tool Version 4.9.4 | | 5 ISP Tool Version 4.9.4 | - 0 X |
|--|-----------------------------|--|------------------------|
| Menu | | Menu | |
| Log Information: | Input more than one ID | Log Information: | Input more than one ID |
| RS485 | ID: 255 | Detecting your Braudrate Detecting your current Braudrate:19200 Detecting your Braudrate:19200,Successfully. | ID: 255 |
| 203407 | Com Port: COM1 - | Hex file verified okay. | Com Port: COM1 |
| | Baudrate: 19200 | Open COM1 successful. | Baudrate: 19200 👻 |
| | O NET FLASH | >>>StartTime:2016-5-10 9:58:43 | C NET FLASH |
| | IP Addr: 192.168.0.183 | Current Programming device ID is : 255 | IP Addr: 192.168.0.183 |
| | IP Port: 502 | Erasing device D 255: Programming lines 123136 to 123264.(100 | 19%) IP Port: 502 |
| | PING IP Address | And the second sec | PING IP Address |
| | Flash SubNode By ID | | Flash SubNode By ID |
| | ID: | | ID: |
| | The File Infor: | | The File Infor: |
| File path: igns\T3-Modules\code\arm_t3\T3_ARM\(FLASH | DBJ\T3_22ai_REV6.hex Select | File path: D:\Designs\T3-Modules\code\arm_t3 | |

2. Use ISPTool Ethernet to Update

In this section, we will display how to use ISPTool Ethernet to update the firmware. Connect T3E-886, for example, to your computer by Ethernet and turn on the power of 24VAC/DC of the unit.

1) Start ISPTool software, as below photo shows, you will see Ethernet setting.

2) Set IP address, ensure that the IP address of the module and the IP address of the computer must in the same subnet.

3) Set IP port to 502.

4) Click "PING IP Address" to check whether the communication is good. If not, then check the wire and setting. If it's good as below the screen shot, after you choose the file, click FLASH to program.

| ₩ ISP Tool Version 4.9.4 | | SP Tool Version 4.9.4 | C ×- |
|---|----------------------------|---|-----------------------------|
| Menu | | Menu | |
| Log Information: | COM FLASH | Log Information: | - O COM FLASH |
| Pinging 192.168.0.183 From 192.168.0.183 : bytes=64 time=265ms TTL=128 From 192.168.0.183 : bytes=64 time=0ms TTL=128 | ID: 255 | Pinging 192.168.0.183 From 192.168.0.183 : bytes=64 time=0ms TTL=128 | ID: 255 |
| From 192.168.0.183 : bytes=64 time=15ms TTL=128 From 192.168.0.183 : bytes=64 time=0ms TTL=128 | Com Port: COM1 | From 192.168.0.183 : bytes=64 time=15ms TTL=128 From 192.168.0.183 : bytes=64 time=0ms TTL=128 | Com Port: COM1 - |
| Ping statistics for 192.168.0.183 : Packets: Sent = 4, Received = 4, Lost = 0 (0% loss) | Baudrate: 19200 | From 192.168.0.183 : bytes=64 time=0ms TTL=128 Ping statistics for 192.168.0.183 : | Baudrate: 19200 |
| Packets, Sent - 4, Received - 4, Lost - 0 (076 1055) | | Packets: Sent = 4, Received = 4, Lost = 0 (0% loss) Checking firmware file, please wait! | NET FLASH |
| Ethernet | IP Addr: 192.168.0.183 | Communication with device.(Remain time:8) | IP Addr: 192.168.0.183 |
| Luioinet | IP Port: 502 | The Device IP is 192.168.0.183 Send DHCP Package!!(Remain time:10) | IP Port: 502 |
| | PING IP Address | The Device IP is 192.168.0.183 Programming finished 123180 byte.(100%).Retry(2) | PING IP Address |
| | Flash SubNode By ID | Total package(241).Resend package(2) | 🔲 Flash SubNode By ID |
| | ID: | Programming successful. | ID: |
| | The File Infor: | | The File Infor: |
| File path: igns\T3-Modules\code\arm_t3\T3_ARM\OI | BJ\T3_22ai_REV6.hex Select | File path: igns\T3-Modules\code\arm_t3\T3_ARM\C | DBJ\T3_22ai_REV6.hex Select |
| FLASH | | FLASH | |

3. Use T3000 to Update

1). Connect your device to PC via RS485 or Ethernet cable, then start T3000 software and click the 'Scan'.

| ool View Database | Control Miscellar | eous Help | | | | Sc | an | | | | | | | | | | | |
|-------------------|-------------------|------------------|----------------------|-------|-------------|----------------|-------------------------|-----------|------------|--|----------|--------|--------|--------------------------|------------------|--------------------------------|--------------|-----------------------|
| | | Contract Charles | | _ | - | 00 | un | | | | | | | | | | | |
| | | | $\mathcal{N}(\cdot)$ | 1 | | | | | | | | | | | | | | |
| | | | | | | | | | - | | | | | | | | | |
| | | | 🗕 û 🗙 | | | iscover [Alt-D | | | | | | | | | | | | |
| Building_1 | | | | Input | Full Laber | HULO/ Man | devices on the LAN, com | ports and | mange | Calibration | Sign | Filter | Status | Jumper | Label | - | | |
| | | | | IN | IN 0 | Auto | 1016.00 | | Unused | 0.0 | - | 5 | Normal | Unused | INO | | | |
| Local Network | | | | IN | IN 1 | Auto | 1014.00 | 710 | Unused | 0.0 | | 5 | Normal | Unused | IN1 | | | |
| FANCE_T | 3000 Scanning | | | | | | | × | Unused | 0.0 | | 5 | Normal | Unused | IN2 | | | |
| | | | - | | | | Server in | | Unused | | | 5 | Normal | Unused | IN3 | | | |
| | | | | | | | | | Unused | 0.0 | | 5 | Normal | Unused | IN4 | | | |
| Panel14 | T3000 is scanning | please wait. | | | | | | | Unused | | | 5 | Normal | Unused | IN5 | = | | |
| T3-221:10 | <u> </u> | | | | | | 0 | | Unused | | | 5 | Normal | Unused | ING | | | |
| | Exit | | | | | | | | Unused | 0.0 | | 5 | Normal | Unused | IN7 | | | |
| TINY | | | | | | | - | | Unused | 0.0 | - | 5 | Normal | Unused | INS | | | |
| Serial Port | Scanning Mode | Skip | Status | Reply | | Not | es | | Unused | 0.0 | - | 5 | Nomal | Unused | IN9 | | | |
| Remote Netwo | UDP broadcast sc | | Running | 11 | | Receive | | | Unused | 0.0 | - | 5 | Normal | Unused | IN10 | | | |
| Se Kemole Netwo | COM1 9600 | No | Finished | 0 | | Scan fi | | | Unused | 0.0 | + | 0 | Normal | Unused | IN11 | | | |
| | COM1 1920 | | Finished | 1 | | Scan fi | | | Unused | 0.0 | + | 0 | Normal | Unused | IN12 | | | |
| | COM1 3840 | | Finished | 0 | | Scan fi | | | Unused | 0.0 | + | 0 | Normal | Unused | IN13 | | | |
| | COM1 5760 | | Finished | 0 | | Scan fi | | | Unused | 0.0 | + | 0 | Nomal | Ununad | IN14 | | | |
| | COM1 11520 | | Running | 0 | Sending so | | command From 1 to 254 | | Ur Scan Re | esult | | | | | | | | - |
| | COM8 9600 | No | Wait | 0 | our long ou | | | | Un | | | | | | | | - | |
| | COM8 1920 | | Wait | 0 | | | | | SC SC | AN RESULT: | | | | | | | | |
| | COM8 3840 | No | Wait | 0 | | | | | | a deservation of the second | | _ | 1 | 1 | | | 1 | |
| | COM8 5760 | No | Wait | 0 | | | | | Ur | Model CO2 | Building | | Room | Sub_net Building 1 | Serial# 91682 | Address 254 | Port COM1 | Protocol Modbus 48 |
| | COM8 11520 | D No | Wait | 0 | | | | | Un | anel:196610-1-192.168.0 | Building | | room1 | Building_1 | 196610 | 192.168.0.252 | 10000 | TCP/IP |
| | Bacnet MSTP | Yes | Skip | 0 | | | | _ | | Panel:65669-1-192.168.0 | | | room1 | Building_1 | 65669 | 192.168.0.14 | 502 | TCP/IP |
| | | | | | | | | | | AO6DO:90867-10-192.10 | | | room1 | Building_1 | 90867 | 192.168.0.252 | 10000 | TCP/IP |
| | | | 11 | 1 | | | | | | tat6:84349-5-192.168.0.2 | | | room1 | Building_1 | 84349 | 192.168.0.252 | 10000 | TCP/IP |
| | | | | IN25 | IN 24 | Auto | 1022.00 | | | 4294967295-254-192.168 | | | room1 | Building_1 | -1 | 192.168.0.252 | 10000 | TCP/IP |
| | | | | IN26 | IN 25 | Auto | 1023.00 | | | tat6:90106-4-192.168.0.2 | | | room1 | | 90106 | 192.168.0.252 | 10000 | TCP/IP |
| | | | | IN27 | IN 26 | Auto | 1023.00 | | | Panel:90049-1-192.168.0 | | | room1 | Building_1 | 90049 | 192.168.0.113 | 502 | TCP/IP |
| | | | | IN28 | IN 27 | Auto | 1023.00 | | | 221:100-254-192.168.0.1 Panel:65768-1-192.168.0 | | | room1 | Building_1 Building_1 | 100 65768 | 192.168.0.163 192.168.0.243 | 10000 | TCP/IP TCP/IP |
| | | | | | | | | | | anel:92294-254-192.168. | | | room1 | | 92294 | 192.168.0.97 | 502 | TCP/IP |
| | | | | | | | | | | VIFI:1111-2-192.168.0.9 | | | | Building_1 | 1111 | 192.168.0.97 | 502 | TCP/IP |

2). You will get the devices on the left device tree.

| · • ₽ × | Input | Full Label | Auto/Manual | Value | Units | Range | Calibration | Sign | Filter | Status | Jumper | Label | |
|--------------------------------|--------------|----------------|--------------|-----------------|-------|------------------|-------------|------|--------|------------------|------------------|--------------|---|
| uilding_1 | IN1 | IN 1 | Auto | 1023.00 | Units | Unused | 0.0 | Jigh | 5 | Normal | | IN1 | |
| | IN2 | IN 2 | Auto | 1.00 | | Unused | 0.0 | 0 | 5 | Normal | Unused | IN2 | _ |
| | IN3 | IN 3 | Auto | 1023.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN3 | |
| | IN4 | IN 4 | Auto | 1023.00 | | Unused | 0.0 | 2 | 5 | Normal | Unused | IN4 | |
| | IN5 | IN 5 | Auto | 1023.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN5 | |
| MiniPanel:65669-1-192.168.0.14 | IN6 | IN 6 | Auto | 1023.00 | | Unused | 0.0 | - | 5 | Normal | Unused | ING | = |
| | IN7 | IN 7 | Auto | 1023.00 | | Unused | 0.0 | | 5 | Normal | Unused | IN7 | |
| | IN8 | IN 8 | Auto | 1023.00 | | Unused | 0.0 | | 5 | Normal | Unused | IN8 | |
| U | IN9 | IN 9 | Auto | 1021.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN9 | |
| 10 | IN10 | IN 10 | Auto | 1018.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN10 | |
| | IN11 | IN 11 | Auto | 1020.00 | | Unused | 0.0 | 1 | 5 | Normal | Unused | IN11 | |
| | IN12 IN13 | IN 12 | Auto | 1020.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN12 | |
| | IN13 IN14 | IN 13 IN 14 | Auto Auto | 1019.00 | | Unused Unused | 0.0 | - | 5 | Normal Normal | Unused | IN13 IN14 | _ |
| | IN15 | IN 15 | Auto | 1020.00 | | Unused | 0.0 | | 5 | Normal | Unused Unused | IN15 | |
| | IN16 | IN 16 | Auto | 1020.00 | | Unused | 0.0 | 2 | 5 | Normal | Unused | IN16 | _ |
| | IN17 | IN 17 | Auto | 1020.00 | | Unused | 0.0 | | 5 | Normal | Unused | IN17 | |
| | IN18 | IN 18 | Auto | 0.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN18 | |
| - | IN19 | IN 19 | Auto | 1019.00 | | Unused | 0.0 | | 5 | Normal | Unused | IN19 | |
| | IN20 | IN 20 | Auto | 1021.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN20 | |
| | IN21 | IN 21 | Auto | 1021.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN21 | |
| CO2:91682254 | IN22 | IN 22 | Auto | 1021.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN22 | |
| | IN23 | IN 23 | Auto | 1022.00 | | Unused | 0.0 | 5 | 5 | Normal | Unused | IN23 | _ |
| | IN24 | IN 24 | Auto | 1022.00 | | Unused | 0.0 | - | 5 | Normal | Unused | IN24 | |
| | IN25 | IN 25 | Auto | 1023.00 | | Unused | 0.0 | | 5 | Normal | Unused | IN25 | _ |
| | IN26 IN27 | IN 26 IN 27 | Auto Auto | 1023.00 1023.00 | | Unused Unused | 0.0 | - | 5 | Normal Normal | Unused | IN26 IN27 | |
| | IN27 | IN 27 | Auto | 1023.00 | | Unused | 0.0 | | 5 | Normal | Unused | IN27 IN28 | - |
| | | | | | | | | | | | | | |

3). Update the firmware online.

| Standard State Sta | | |
|--|--|---|
| File Tool View Database Control Miscellaneous Help | | |
| Contents Building 1-> Building 1 | | |
| | Text 10:43 | Е |
| TStat6-4 | Clear External Calibration Offset | |
| Add 0 Tx 26 Rx 25 Err 0 Health 91% | Multi Read ID=254,start address=800,length=100 | |

| Download Firmware | | X |
|--------------------|---------------------------|------------------------------|
| Product ID : 33 | Update T3000 | Download Fireware Only |
| Product Name : CO2 | Open Firmware File Folder | Download Fireware And Update |
| | | |
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Downloading the firmware:

| Download Firmware | The Alexandream | crise-liper | | × |
|---|--|-------------------|----------------------|------------------------------|
| Product ID : | 33 | | | Download Fireware Only |
| Product Name : | CO2 | | Firmware File Folder | Download Fireware And Update |
| Wait connection to the IF Connect to Temco server File name CO2-W_R47.h Local Firmware folder dos File download finished 25 | success! ex .File size about 170496 Bytes en't exsit the file we needed.we will download | d it from server. | | |
| | | | | |
| | | | | |
| | | | | |

Updating the firmware:

| Download Firmware | | × |
|---|---------------------------|------------------------------|
| Product ID : 33 | Update T3000 | Download Fireware Only |
| Product Name : CO2 | Open Firmware File Folder | Download Fireware And Update |
| Wait connection to the IP 192.168.0.4 Connect to server success! File name CO2-W_R47.hex .File size about 170496 Bytes Local FirmwarePath = C:\Program Files\T3000\Database\Firmware\CO2-W_R47.hex ISP via: COM1 ISP baufrate: 19200 Device ID :254 [Open COM1 successful. [Programming device Wait device jump to ISP mode. Wirte start tips command to device.(7) >>Begin >>Begin Time: 2016-3-31 17:24:48 [Programming device Intializing device ID 254: Programming lines 13312 to 13440.(22%) | | |

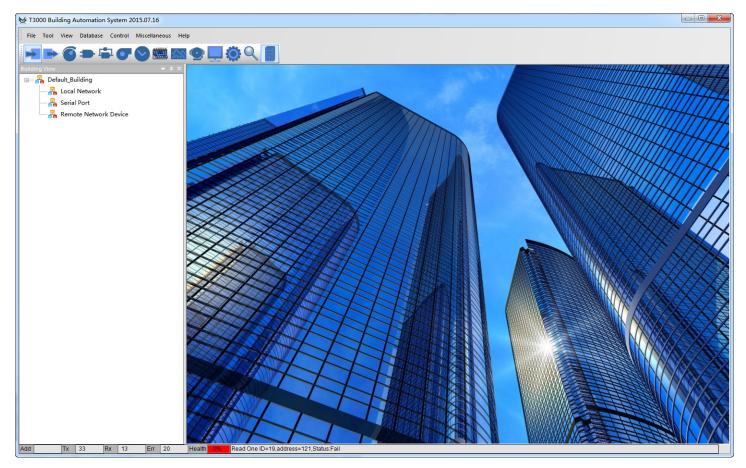
Update done.

| ownload Firmware | | |
|--|---------------------------|------------------------------|
| Product ID : 33 | Update T3000 | Download Fireware Only |
| Product Name : CO2 | Open Firmware File Folder | Download Fireware And Update |
| Vait connection to the IP 192.168.0.4 Jonnect to server success! ile name CO2-W_R47.hex .File size about 170496 Bytes ocal FirmwarePath = C:\Program Files\T3000\Database\Firmware\CO2-W_R47.hex SP via : COM1 SP baudrate : 19200 levice ID :254 Open COM1 successful. Programming device Vait device jump to ISP mode. Vite start isp command to device.(7) >>B0-254-<< | | |

T3000 Software Introductions

1. Visit <u>https://temcocontrols.com/ftp/software/09T3000Software.zip</u>, download T3000 software and install it;

2. Connect T3E-22i to PC via RS485 at pin 14, 15 and 16 or Ethernet. Open the software T3000, it



3. Click scan, it will open below the window view, then close it.

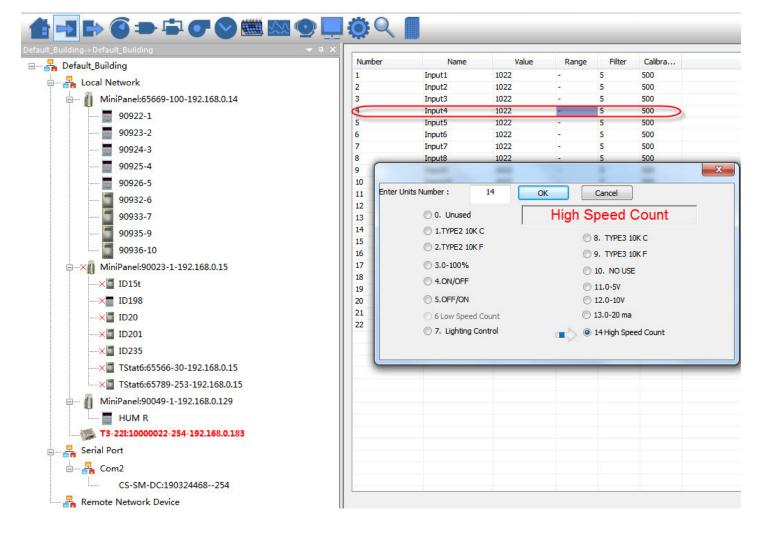
| | -f-orth Route | | — п | | | | 2 | 2 | | | |
|----|---------------|--------------|--------|-------|----------------|---------|---------|------|------------|---|-------------|
| an | Result | | | | and the second | | - | 100 | (mage | - | × |
| 1 | Model | Building | Floor | Room | Sub_net | Serial# | Address | Port | Protocol | | 2. Close it |
| | | fault Buildi | floor1 | room1 | fault Buildi | 65569 | 200 | COM3 | Modbus 485 | 1 | Z. Close II |

4. Click T3E-22i log, it will show all the information of it.

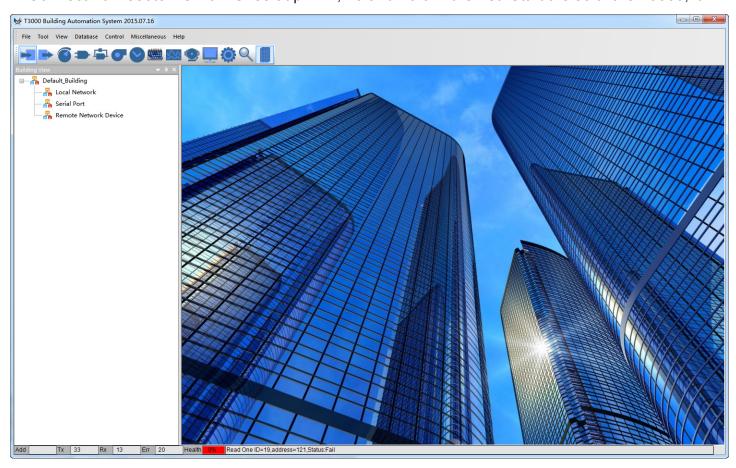
| T3000 Building Automation System 2015.07.20 File Tool View Database Control Miscellaneou | us Help | - | - spindpart | and the second second |
|---|------------------|----------|-------------|-----------------------|
| ► ⓒ = = • • • • | | <u>م</u> | | |
| fault_Building → Default_Building → # × Default_Building Serial Port | ID Address 200 | Change | ID Serial | Number 65569 |
| | Firmware Version | 3056.0 | Model | T3-22AI |
| T3-22AI:65569200 | Hardware Version | 23 | PIC | 1 |

5. Click input, it will show the view of all inputs. For T3E-22i, from input channel 1-11, it's high speed pulse counters. From input channel 12-22, it's low speed pulse counters.

| 🤯 T3000 Building Automation Syst | em 2015.07.20 | | | | |
|---|---------------------|-------------|------------|----------|--------|
| File Tool View Database Con | ntrol Miscellaneo | us Help | | | |
| | •• | | O (| | |
| Defat Inputs [Alt-I] Sensors and feedback poin | ts wired to the con | troller | | | |
| efault_Building -> Default_Building ~ # > | <hr/> | _ @Q | | | |
| ∃ 🗛 Default_Building | Number | Name | Value | Range | Filter |
| | 1 | Input1 | 2683 | RAW DATA | 5 |
| 🖻 🔤 📲 Serial Port | 2 | Input2 | 2687 | RAW DATA | 5 |
| 🖕 📲 Com3 | 3 | Input3 | 2692 | RAW DATA | 5 |
| T3-22AI:65569200 | 4 | Input4 | 2694 | RAW DATA | 5 |
| (Jacobian Contraction of Contractio | 5 | Input5 | 2688 | RAW DATA | 5 |
| | 6 | Input6 | 2688 | RAW DATA | 5 |
| | 7 | Input7 | 2685 | RAW DATA | 5 |
| | 8 | Input8 | 2693 | RAW DATA | 5 |
| | 9 | Input9 | 2684 | RAW DATA | 5 |
| | 10 | Input10 | 2694 | RAW DATA | 5 |
| | 11 | Input11 | 2688 | RAW DATA | 5 |
| | 12 | Input12 | 2686 | RAW DATA | 5 |
| | | | | | |
| | 13 | Input13 | 2691 | RAW DATA | 5 |



- 1. Download T3000 software https://temcocontrols.com/ftp/software/09T3000Software.zip and install
- it. 2. Connect T3E-886to PC via RS485 at pin 14, 15 and 16 or Ethernet. Start the software T3000, it will



3. Click scan, it will appear one pop up window.

| | | | | | _ | | | | |
|---|--|--|---|--|--|---|---|--|---------------------------------------|
| | | | | | Contraction of the local division of the loc | Click to | scan | | |
| | AIIII - | | | | | | | | |
| | | | - | | | | | | |
| Result | | | | | | | | | |
| | | | | | | | | | 7 |
| SCAN RESULT: | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| SCAN RESULT: | | | | | | | | | when discove |
| Model | Building | Floor | Room | Sub net | Serial# | Address | Port | Protocol | AAL CALLS REPORTED AND A |
| | | | CONTRACTOR OF THE OWNER | 5 N - A N | | 754 | 00144 | | |
| T3-8AI8AO6DO | fault_Buildi | floor1 | room1 | fault_Buildi | 0 | 254 | COM4 | Modbus 485 | 13 module. |
| T3-8AI8AO6DO 5_Ethernet:65584-7-192.168.(| | floor1 floor1 | room1 room1 | fault_Buildi fault_Buildi | 65584 | 254 192.168.0.48 | 10000 | TCP/IP | T3 module, |
| No | fault_Buildi | | | | - | | | | then close it |
| 5_Ethernet:65584-7-192.168.(| fault_Buildi fault_Buildi | floor1 | room1 | fault_Buildi | 65584 | 192.168.0.48 | 10000 | TCP/IP | |
| 5_Ethernet:65584-7-192.168.(iniPanel:65729-1-192.168.0.24 | fault_Buildi fault_Buildi fault_Buildi | floor1 floor1 | room1 room1 | fault_Buildi fault_Buildi | 65584 65729 | 192.168.0.48 192.168.0.244 | 10000 10000 | TCP/IP TCP/IP | |
| 5_Ethernet:65584-7-192.168.0 iniPanel:65729-1-192.168.0.24 TStat7:262744-4-192.168.0.48 | fault_Buildi fault_Buildi fault_Buildi fault_Buildi | floor1 floor1 floor1 | room1 room1 room1 | fault_Buildi fault_Buildi fault_Buildi | 65584 65729 262744 | 192.168.0.48 192.168.0.244 192.168.0.48 | 10000 10000 10000 | TCP/IP TCP/IP TCP/IP | |
| 5_Ethernet:65584-7-192.168.(iniPanel:65729-1-192.168.0.2 TStat7:262744-4-192.168.0.48 atHUM:84448-250-192.168.0 TStat7:328280-5-192.168.0.48 | fault_Buildi fault_Buildi fault_Buildi fault_Buildi fault_Buildi | floor1 floor1 floor1 floor1 floor1 | room1 room1 room1 room1 room1 | fault_Buildi fault_Buildi fault_Buildi fault_Buildi fault_Buildi | 65584 65729 262744 84448 | 192.168.0.48 192.168.0.244 192.168.0.48 192.168.0.244 | 10000 10000 10000 10000 | TCP/IP TCP/IP TCP/IP TCP/IP TCP/IP | |
| 5_Ethernet:65584-7-192.168.0 iniPanel:65729-1-192.168.0.24 TStat7:262744-4-192.168.0.48 atHUM:84448-250-192.168.0.; | fault_Buildi fault_Buildi fault_Buildi fault_Buildi fault_Buildi fault_Buildi | floor1 floor1 floor1 floor1 floor1 | room1 room1 room1 room1 | fault_Buildi fault_Buildi fault_Buildi fault_Buildi | 65584 65729 262744 84448 328280 | 192.168.0.48 192.168.0.244 192.168.0.48 192.168.0.244 192.168.0.244 192.168.0.48 | 10000 10000 10000 10000 10000 | TCP/IP TCP/IP TCP/IP TCP/IP | |

4. Click T3E-886 log, it will show all the information of it.

| ılt_Building->Default_Building → 🗜 🗙 | | | |
|---|--|--|-------------|
| | ID Address 254 Char | nge ID Serial Number 0 | Go To Input |
| CHAMBER 7 MiniPanel:65669-254-192.168.0.14 MiniPanel:66779-254-192.168.0.3 MiniPanel:89995-254-192.168.0.8 PANEL48 PANEL48 PANEL48 262744 328280 328280 33816 66136 Com4 Com4 T3-8AI8AO6DO:0254 Remote Network Device | Firmware Version 0.0 Hardware Version 8 TCP/IP Info IP Model STATIC ✓ IP Address 192 . 168 . 0 . 183 Subnet Mask 255 . 255 . 0 Gateway Address 192 . 168 . 0 . 4 | Model T3-8AI8AO6DO PIC 0 Listening Port 10000 MAC Address: 04-02-35-AF-00-01 Apply | |

5. Click input, it will show the view of all inputs.



Click input1 range, it will appear one pop up window, you can choose "pulse input", then click ok.

| Label | Value | Range | Filter | | |
|--------|----------|-------------|--------|----------------|--|
| Input1 | 5.0 V | 0-5V | 5 | | |
| Input2 | 5.0 V | 0-5V | 5 | | |
| Input3 | 5.0 V | 0-5V | 5 | | |
| Input4 | 5.0 V | 0-5V | 5 | | |
| Input5 | 5.0 V | 0-5V | 5 | | |
| Input6 | 5.0 V | 0-5V | 5 | | |
| Input7 | 5.0 V | 0-5V | 5 | | |
| Input8 | 5.0 V | 0-5V | 5 | | |
| | © 0. Un | | | 0-5V | |
| | 0 | | | 8. TYPE3 10K C | |
| | C 2.TYP | EZ TÜK F | | 9. TYPE3 10K F | |
| | 0 3.0-10 | 00% | | 10. NO USE | |
| | 0 4.ON/ | OFF | | | |
| | | | | | |
| | 0 5.OFF | /ON | - | © 12.0-10V | |
| | O 6 Low | Speed Count | | 🔘 13.0-20 ma | |
| | | | | | |

Register List

T3E-22i Register List

| Address | Num | Length | Description | Bacnet |
|---------|-----|--------|--|--------|
| 0~3 | 1 | 4 | Serial number | AV0 |
| 4 | 1 | 1 | Firmware version number | AV1 |
| 5 | 1 | 1 | software version number | AV2 |
| 6 | 1 | 1 | modbus service address | AV3 |
| 7 | 1 | 1 | product model | AV4 |
| 8 | 1 | 1 | hardware version number | AV5 |
| 9~13 | 1 | 5 | spare | |
| 15 | 1 | 1 | baudrate | AV6 |
| 16~39 | 0 | | spare | |
| 40~45 | 1 | 6 | Mac address. Read only | |
| 46 | 1 | 1 | DHCP setting. 0 = static 1=dynamic Read only | |
| 47~50 | 1 | 4 | Ip address Read only | |
| 51~54 | 1 | 4 | sub mask address Read only | |
| 55~58 | 1 | 4 | gateway address Read only | |
| 59 | 1 | 1 | tcp server Read only | |
| 60 | 2 | 1 | listen port Read only | |
| 61 | 1 | 1 | gost ip mode Read/Write | |
| 62~65 | 1 | 4 | gost Ip address Read/Write | |
| 66~69 | 1 | 4 | gost sub mask address Read/Write | |
| 70~73 | 1 | 4 | gost gateway address Read/Write | |
| 74 | 1 | 1 | gost tcp server Read/Write | |
| 75 | 2 | 1 | gost listen port Read/Write | |
| 76 | 1 | 1 | gost write gost value to sytem and refresh the the real parameter Read/Write | |
| 77~99 | 0 | | spare | |
| 100 | 2 | 1 | Input1 high word | AI1 |
| 101 | 2 | 1 | Input1 low word Input1: 2 registers, Value = Reg100 * 65535 + Reg 101 The A/D converer is 12 bits so for most ranges you can read reg101 only. For pulse counting use reg 100 and 101. | |
| 102 | 2 | 1 | Input2 . see input1 description for details | Al2 |
| 103 | 2 | 1 | | |
| 104 | 2 | 1 | Input3 . see input1 description for details | AI3 |
| 105 | 2 | 1 | 1 | |
| 106 | 2 | 1 | Input4 . see input1 description for details | Al4 |
| 107 | 2 | 1 | | |

| Address | Num | Length | Description | Bacnet |
|---------|-----|--------|--|--------|
| 108 | 2 | 1 | Input5 . see input1 description for details | AI5 |
| 109 | 2 | 1 | | |
| 110 | 2 | 1 | Input6 . see input1 description for details | Al6 |
| 111 | 2 | 1 | | |
| 112 | 2 | 1 | Input7 . see input1 description for details | AI7 |
| 113 | 2 | 1 | | |
| 114 | 2 | 1 | Input8 . see input1 description for details | AI8 |
| 115 | 2 | 1 | | |
| 116 | 2 | 1 | Input9 . see input1 description for details | AI9 |
| 117 | 2 | 1 | | |
| 118 | 2 | 1 | Input10 . see input1 description for details | AI10 |
| 119 | 2 | 1 | | |
| 120 | 2 | 1 | Input11 . see input1 description for details | AI11 |
| 121 | 2 | 1 | | |
| 122 | 2 | 1 | Input12 . see input1 description for details | AI12 |
| 123 | 2 | 1 | | |
| 124 | 2 | 1 | Input13 . see input1 description for details | AI13 |
| 125 | 2 | 1 | | |
| 126 | 2 | 1 | Input14 . see input1 description for details | AI14 |
| 127 | 2 | 1 | | |
| 128 | 2 | 1 | Input15 . see input1 description for details | AI15 |
| 129 | 2 | 1 | | |
| 130 | 2 | 1 | Input16 . see input1 description for details | AI16 |
| 131 | 2 | 1 | | |
| 132 | 2 | 1 | Input17 . see input1 description for details | AI17 |
| 133 | 2 | 1 | | |
| 134 | 2 | 1 | Input18 . see input1 description for details | AI18 |
| 135 | 2 | 1 | | |
| 136 | 2 | 1 | Input19 . see input1 description for details | AI19 |
| 137 | 2 | 1 | | |
| 138 | 2 | 1 | Input20 . see input1 description for details | AI20 |
| 139 | 2 | 1 | | |
| 140 | 2 | 1 | Input21 . see input1 description for details | Al21 |
| 141 | 2 | 1 | | |
| 142 | 2 | 1 | Input22 . see input1 description for details | AI22 |
| 143 | 2 | 1 | | |
| 144~199 | 0 | 1 | spare | AV32 |
| 200~221 | 2 | 22 | filter for input1~22 | AV7~28 |

T3E-22i Register List

| Address | Num | Length | Description | Bacnet |
|---------|-----|--------|----------------------|---------|
| 222~224 | 0 | | spare | |
| 225~246 | 1 | 22 | range for input1~22 | AV29~50 |
| 247~249 | 0 | spare | | |
| 250~271 | 2 | 22 | offset for input1~22 | AV51~72 |

T3E-886 Register List

| Address | Num | Length | Description | Bacnet |
|----------|-----|--------|---|--------|
| 0~3 | 1 | 4 | Serial number | AV0 |
| 4 | 1 | 1 | Firmware version number | AV1 |
| 5 | 1 | 1 | software version number | AV2 |
| 6 | 1 | 1 | modbus service address | AV3 |
| 7 | 1 | 1 | product model | AV4 |
| 8 | 1 | 1 | hardware version number | AV5 |
| 9~13 | 1 | 4 | spare | |
| 15 | 1 | 1 | baudrate | AV6 |
| 16~39 | 0 | | spare | |
| 40~45 | 1 | 6 | Mac address. Read only | 1 |
| 46 | 1 | | Ip mode. 0 = static 1=dynamic Read only | |
| 47~50 | 1 | 4 | Ip address Read only | |
| 51~54 | 1 | 4 | sub mask address Read only | |
| 55~58 | 1 | 4 | gateway address Read only | |
| 59 | 1 | 1 | tcp server Read only | |
| 60 | 2 | 1 | listen port Read only | |
| 61 | 1 | 1 | gost ip mode Read/Write | |
| 62~65 | 1 | 4 | gost Ip address Read/Write | |
| 66~69 | 1 | 4 | gost sub mask address Read/Write | |
| 70~73 | 1 | 4 | gost gateway address Read/Write | |
| 74 | 1 | 1 | gost tcp server Read/Write | |
| 75 | 2 | 1 | gost listen port Read/Write | |
| 76 | 1 | 1 | gost write gost value to sytem and refresh the the real pa- rameter Read/Write | |
| 77 to 99 | 0 | | spare | |
| 100~107 | 2 | 8 | analog output1~8 | AO0~7 |
| 108~113 | 2 | | digit output1~6 | BO1~6 |
| 114~115 | 2 | 2 | switch bank1~2 | AV7~8 |
| 116 | 2 | 2 | analog input1 | AIO |
| 117 | 1 | | | |
| 118 | 2 | 2 | analog input2 | Al1 |
| 119 | 1 | | | |
| 120 | 2 | 2 | analog input3 | Al2 |
| 121 | 1 | | | |
| 122 | 2 | 2 | analog input4 | AI3 |
| 123 | 1 | | | |
| 124 | 2 | 2 | analog input5 | Al4 |
| 125 | 1 | | | |

T3E-886 Register List

| Address | Num | Length | Description | Bacnet |
|---------|-----|--------|------------------------|---------|
| 126 | 2 | | analog input6 | AI5 |
| 127 |] | | | |
| 128 | 2 | | analog input7 | Al6 |
| 129 | | | | |
| 130 | 2 | | analog input8 | AI7 |
| 131 | | | | |
| 200~207 | 2 | 8 | analog input1~8 filter | AV9~16 |
| 225~232 | 2 | 8 | range for input1~8 | AV17~24 |
| 250~257 | 2 | 8 | offset for input1~8 | AV25~32 |

Set Up WIFI via T3000

Take an example of T3E-22i-W here, connect WIFI via T3000

1.Visit https://temcocontrols.com/ftp/software/09T3000Software.zip, download T3000 software and install it;

2.Start T3000 software, click 🔍 to scan

