

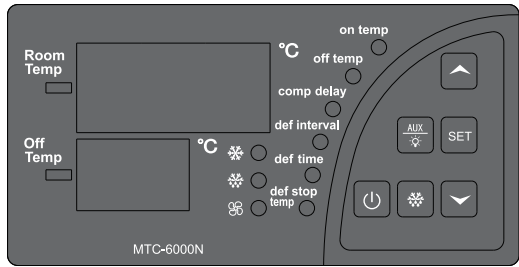
JC-8.871.923

MTC-6000N Microcomputer Controller
User Manual

Overview

MTC-6000N temperature controller is designed to control temperatures in cold room. It features various control functions such as cooling, defrost, fan, auxiliary output and RS-485 communication. It also has the functions of temperature measurement, display, control and calibration, high / low temperature alarm, over range alarm and sensor failure alarm. If used as a control terminal connected to a relay module and accessing network, the controller will obtain remote monitoring and setting functions.

Appearance



- ◆ LED Indicators
- ◇ on temp: the temperature when compressor is on.
 - ◇ off temp: the temperature when compressor is off.
 - ◇ comp delay: compressor output delay when switched on/off.
 - ◇ def interval: the interval between two defrosts.
 - ◇ def time: the duration of one defrost.
 - ◇ def stop temp: the temperature when defrost stops.
- ◇ : cooling
◇ : defrost
◇ : fan


Dimensions:
Panel Size: 100 (L) x 21 (W) mm Mounting Size: 92 (L) x 44 (W) mm
Product Size: 100 (L) x 51 (W) x 82.5 (D) mm Sensor Cable Length: 2m (probe length included)

Specifications:

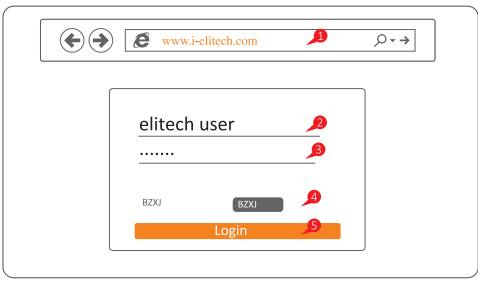
- ◆ Power supply: 220VAC±10%, 50Hz/60Hz
- ◆ Temperature measuring range: -50°C~50°C
- ◆ Temperature control range: -50°C~50°C
- ◆ Temperature accuracy: ±1°C(-40°C~50°C), ±1.5°C(others)
- ◆ Temperature resolution: 0.1°C
- ◆ Sensor cable length: 2m (probe length included)
- ◆ Storage temperature: -30°C~75°C
- ◆ Operating ambient temperature: 0°C~60°C
- ◆ Sensor type: NTC (10KΩ/25°C, B value = 3435K)

Product Versions:

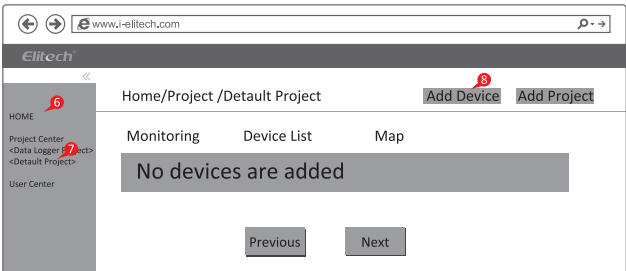
The controller has two versions: RS-485 version and Wi-Fi version.

1. RS-485 Version
This version features a RS-485 communication interface and adopts MODBUS-RTU protocols. Its communication address is defined by F23.
2. Wi-Fi Version
Before configuring Wi-Fi, press and hold  button for more than 15 seconds until Room Temp window (upper window) displays "rst" and Off Temp window (lower window) displays "wif". After about 20 seconds, these two windows will display the normal temperature values, indicating the Wi-Fi is reset successfully.

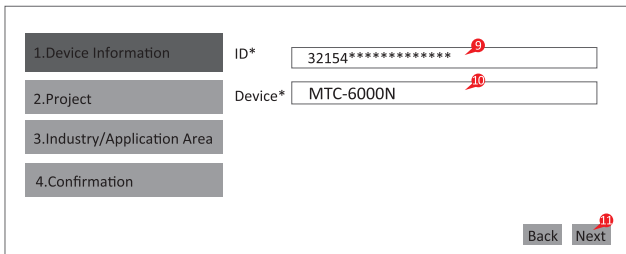
1



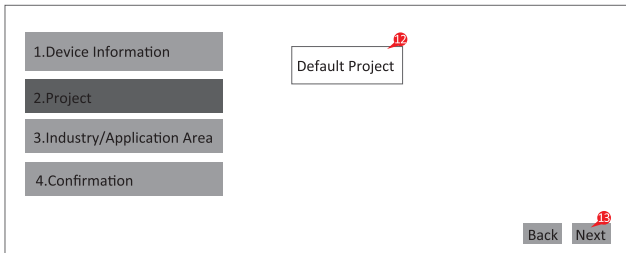
2. Add Device
After login, follow 6 to 8 to add a device:



A window pops up and requires entering the device GUID and name. Click "Next". (Refer 9 to 11 shown below).




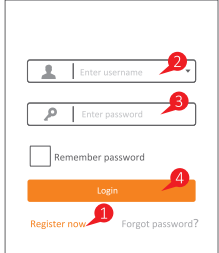
Select "Default Project" and click "Next" (Refer 12 & 13 shown below).



3

Access to Network

- Network Configuration on Mobile App:
1. Download Elitech app  in the App Store or Google Play.
2. Register an account and login.
Note:
If you have no Elitech account, please follow 1 (shown in below picture) to register.
If you have the account, follow 2 to 3 to enter your username and password to log in.



Add device

After login, click "+" on top right to add device GUID. Refer to step 5.



- 1) Enter device GUID:
Scan the QR code to add the GUID. See step 6 below.
Type in the GUID (20 numbers) manually. See step 7 below.
2) Customize your device name. See step 8 below.
3) Click "Add". See step 9 below.

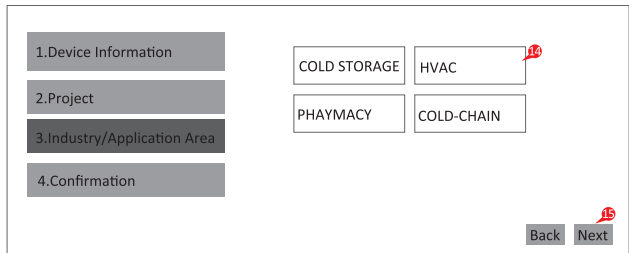


Network Configuration on Webpage

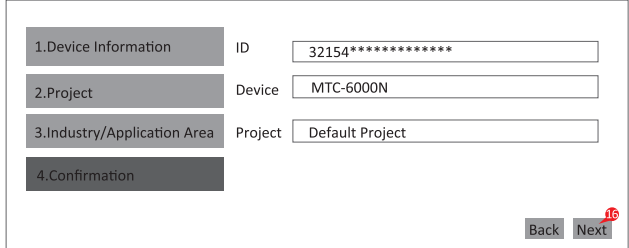
1. Login
Open the browser and enter the Elitech Cloud url in the address bar: <http://www.i-elitech.com>. Enter the username and password, click "Login" (Refer 1 to 5 shown below).
If you have no account yet, please register one first.

2

Select the scenario the device to be used and click "Next" (Refer 14 & 15 shown below).






Relative device information appears. Confirm it and click "Finish" (Refer 16 shown below).








When the device is added, refresh the home page to display this added device.

User Menu Viewing

Under normal running status, press and hold  button for more than 5 seconds until On Temp indicator turns on, user can view parameters. Press  button again to scroll through parameters. Press  button or keep the controller inactive for more than 10 seconds it will exit from viewing status.

User Menu Settings

Under normal running status, press and hold  button for more than 10 seconds until SET shows in the Room Temp window, user can set parameter values. Press  button again to set the parameter value. Repeat this operation to set each parameter value. Use  or  button to change parameter value. Then press  button or keep the controller inactive for 10 seconds to save the settings and exit.

User Menu

Item	Setting Range	Default	Note
ON temp	OFF temp~+50.0°C	10.0°C	Compressor is switched on when this set-point is reached.
OFF temp	-50.0°C~ ON temp	-10.0°C	Compressor is switched off when this set-point is reached.
Compressor delay	0~120 min	3 min	The minimum interval between the switch-off of the compressor and its successive switch-on.
Defrost Interval	0~120 min	6h	The interval between two defrosts.
Defrost Time	0~120 min	30 min	The duration of one defrost
Defrost Stop Temp	-50~+50°C	10.0°C	If the temperature measured by defrost sensor exceeds this set-point, defrost is inactive.

4

媒体编号

- 技术要求:
- 尺寸: 280*400mm , 公差±0.5mm
 - 105g哑粉纸, 黑白印刷
 - 符合ROHS, 红色虚线不印刷, 边缘线不印刷

旧图纸总号

底图总号

日期 签名

格式 (3)

拟 制

审 核

标准化

批 准

制图:

描图:

说明书

MTC-6000N英文中性 ROHS

幅面:

标记	数量	更改单号	签名	日期
25050206771				
JC-8.871.923				
阶段	标记	第 1 张	共 2 张	
S	A			

