Electronics & Automation Engineering Pty Ltd
ABN: 28 659 967 398
44 Frankston Gardens Drive,
Carrum Downs, VIC
Australia 3201
Ph +61 3 9708 2390
Email: info@oceancontrols.com.au

TH500A-1 Quick-start Guide

Quick Set-up

The TH500A-1 by Hanyoung Nux is remarkably simple to initialize and program. With little knowledge, you can perform PID control, detailed temperature/humidity monitoring, logging, graphing, and pattern recognition. The device also comes with 8 digital inputs, 8 O/Collector outputs and 12 internal relays. It is also capable of RS232, RS485 and USB communication.

To begin recording temperature or humidity;

1. Power with 240VAC with the help of an Electrician
2. Connect your temperature/humidity probe (figures 3.1 & 3.2)

After the automatic initialization on start-up, you should see the temperature and humidity readings on the screen. See figure 1 for the screen steps and display layout.

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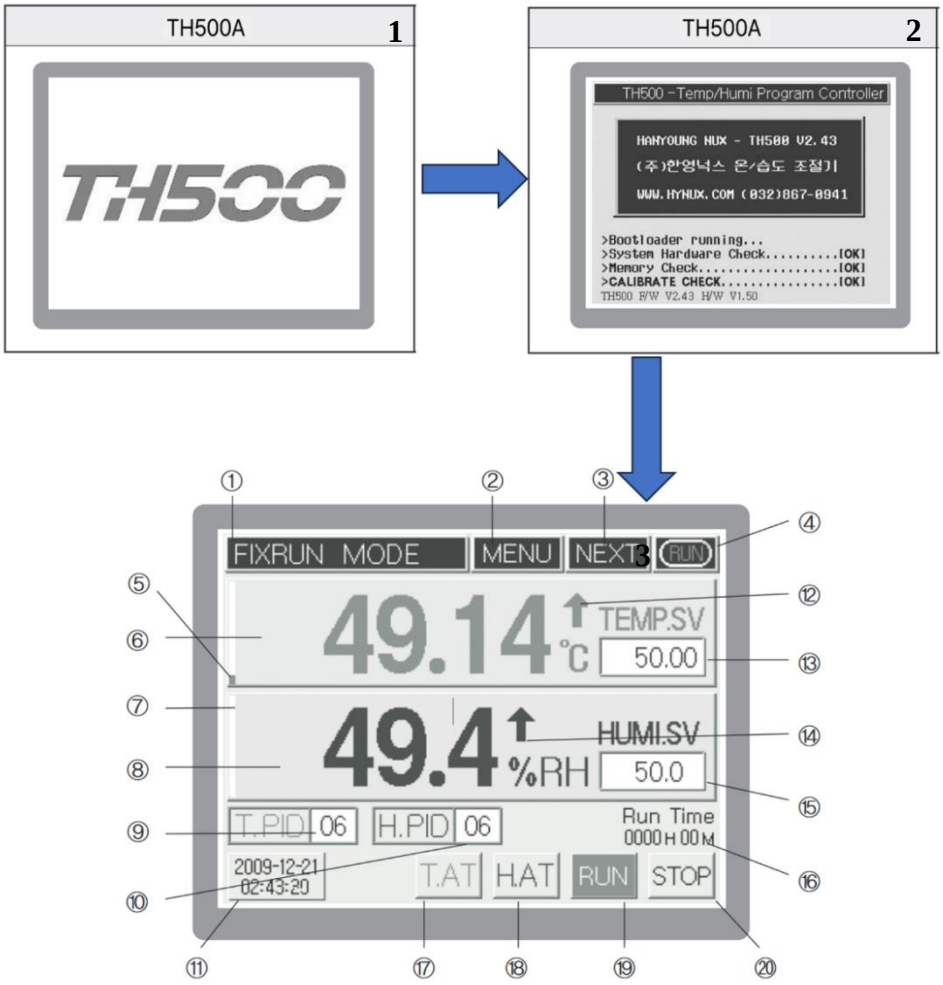

Figure 1

NO	Name	NO	Name
①	Current operation status	⑪	Current date/time
②	Menu button	⑫	Temperature PV Up/Down indication
③	Operation screen 2 shift button	⑬	Temperature SV input box
④	Running/Stop indication	⑭	Humidity PV Up/ Down indication
⑤	Control output BAR for current temperature (MV)	⑮	Humidity SV input box
⑥	Current temperature PV	⑯	Running time indication
⑦	Control output BAR for current humidity (MV)	⑰	Temperature A/T button
⑧	Current humidity PV	⑱	Humidity A/T button
⑨	Temperature PID Zone No. input box	⑲	Start button for Fix-Running
⑩	Humidity PID Zone No. input box	⑳	Stop button for Fix-Running

Table 1

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Humidity/Temperature Logging and Graphing

In order to begin and display the logging graph;

1. Press the run button in the bottom left (figure/table 1, 19)
2. Navigate to the graph page by pressing the arrow in the top right (figure/table 1, 3)

See figure and table 2 which contain the graphing screen and the relevant button commands.

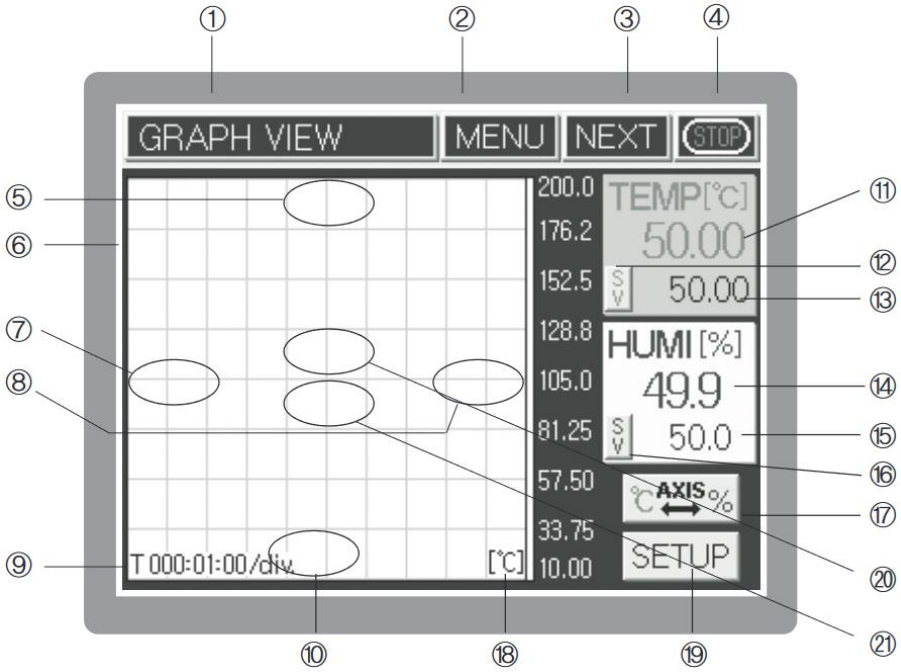

Figure 2

NO	Name	NO	Name
①	Current operation status	⑫	Current temperature MV/SV indicator shift button
②	Menu button	⑬	Current temperature MV or SV indication
③	Operation screen 1 shift button	⑭	Current humidity PV indication
④	Running/Stop indication	⑮	Current humidity MV or SV indication
⑤	Upside screen of Y axis	⑯	Current humidity MV/SV indicator shift button
⑥	Temperature & humidity SV, PV indication	⑰	Y axis temperature & humidity unit shift button
⑦	Div time increase of X axis	⑱	Y axis unit indication
⑧	Div time decrease of X axis	⑲	Graph/Save setting button
⑨	X axis time / Div	⑳	Screen ZOOM IN
⑩	Low part screen of Y axis	㉑	Screen ZOOM OUT
⑪	Current temperature PV indication		

Table 2

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Connection Diagram

Model : TH500A-1□□

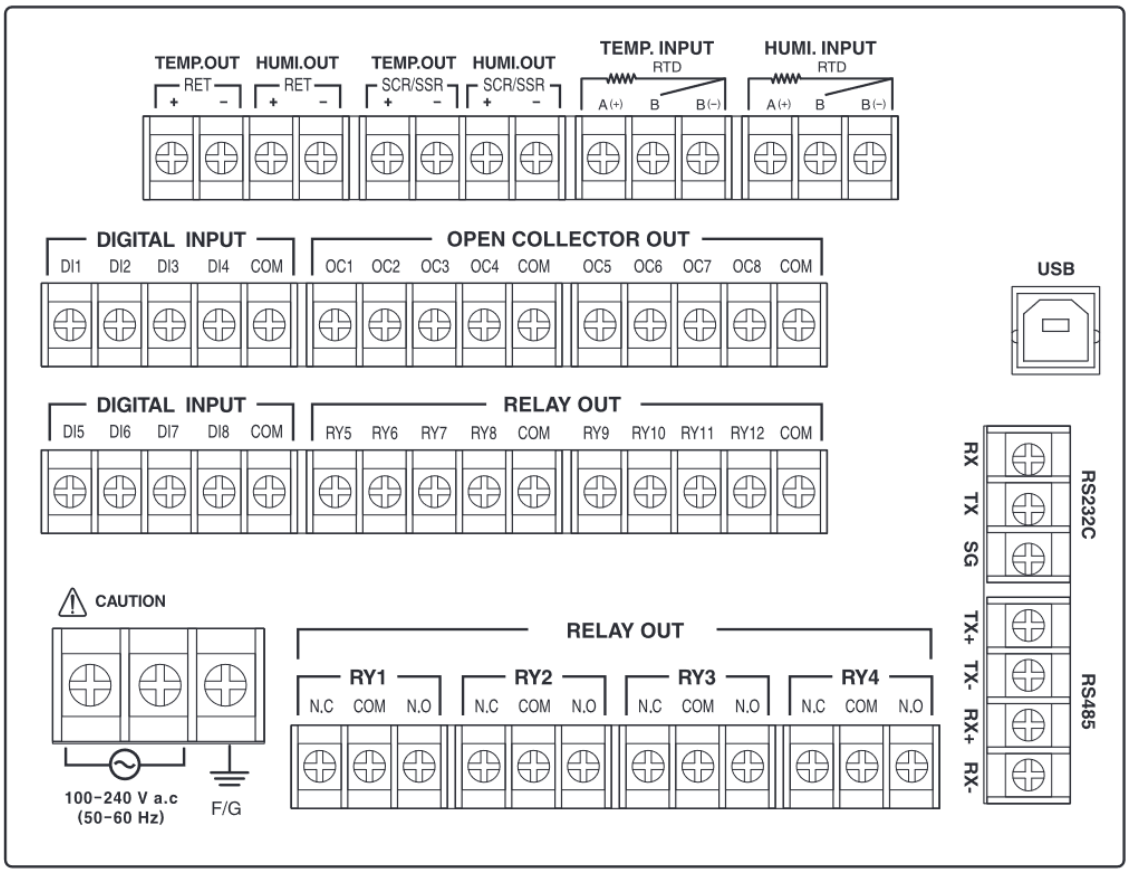

Figure 3.1

● Sensor Input

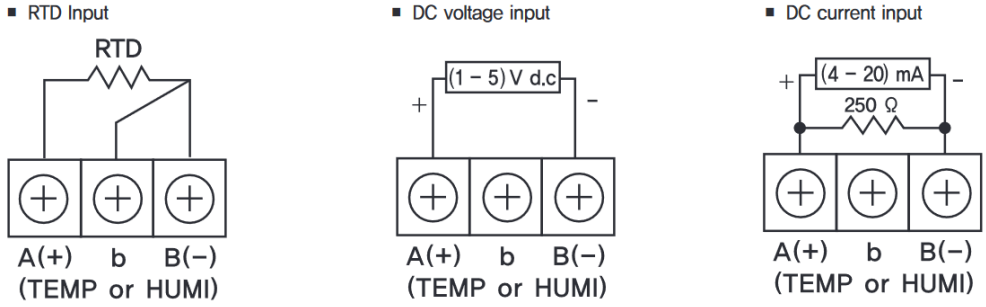

Figure 3.2

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Dimensions

● TH500A-1 (Standard)

[Unit : mm]

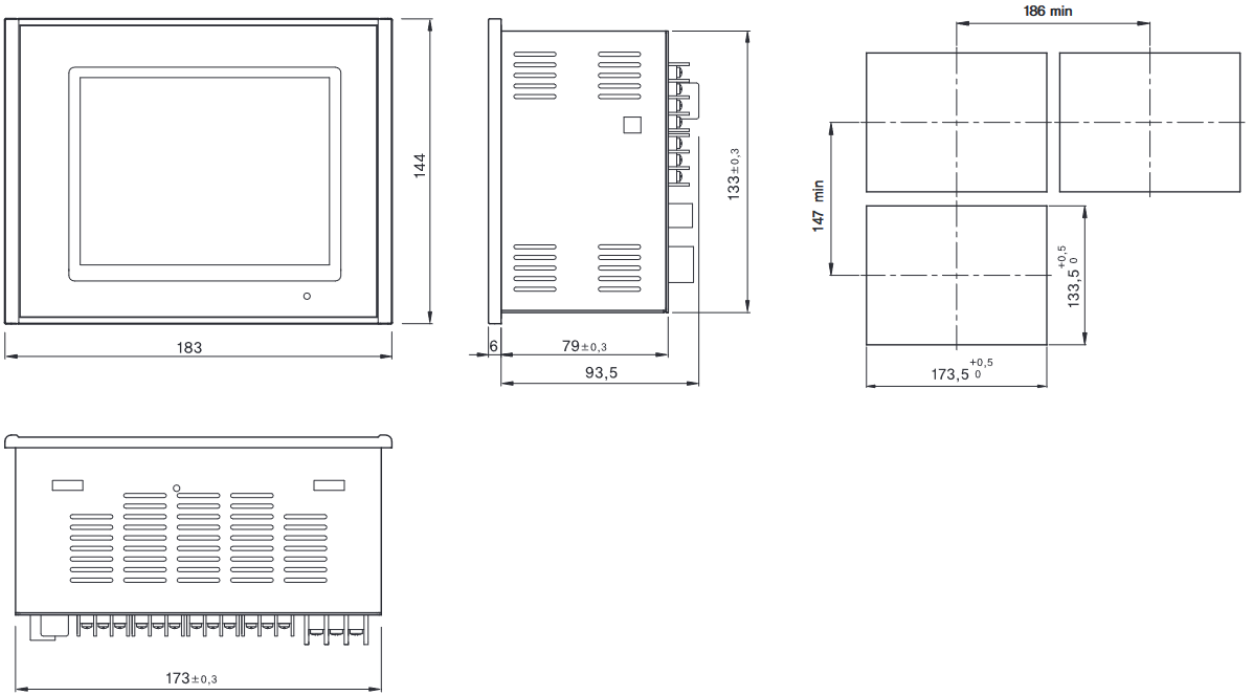

Figure 4