

Display specification: 7" Screen size, with 1024x600 resolutions 16:9 IPS LCD,
Capacitive touch screen

CPU: Cortex-A7 528MHz

Memory: 512MB LvDDR3

Storage (ROM): 4GB eMMC

Dimension: 200x136x30 Cut out panel Size195x131

2 USB ports: Use for exporting data, upgrading software and connecting to mouse.

Com1 (A1,B1): Connect to RS485 port of our temperature controller and you can Change timeout, interval, wait, retry and max slave address

Com2 (A2,B2): Connect to RS485 port of PLC and you can change baud Rate, Stop Bits, Parity and number of address

Important advantage:

- 1- You can program, monitor and control your production lines manually or by HMI system at the same time.
- 2- Save money with connecting more production lines (64 independent systems) with your HMI system.
- 3- Easy setup compare to other PLC's
- 4- Save time with connecting more production lines (64 independent systems) with your HMI system.
- 5- You can check and analyze your database clone with fast alarm recognition with a real time feedback and use USB stick for storage.
- 6- Make unlimited programs for your each production line.
- 7- Central location (on your 7" display) for programing, monitoring and controlling the multiple
- 8- User friendly system, easy training to supervise the automation line with less hardware.

Please consider following tips,

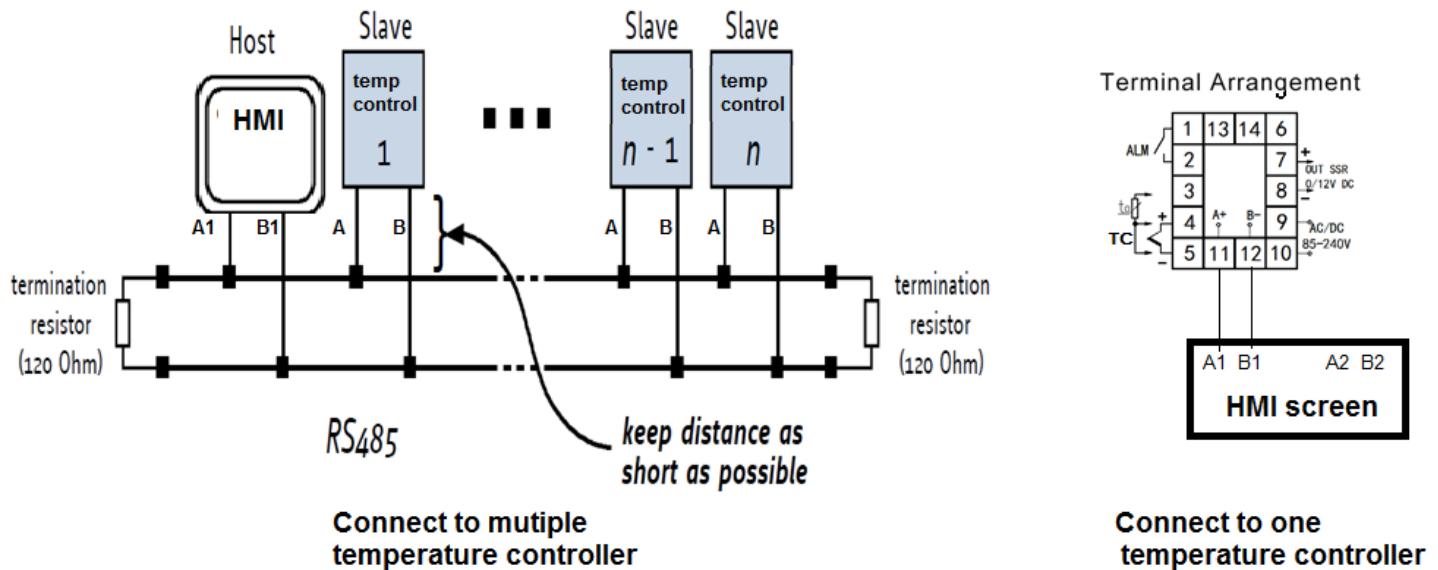
- 1-HMI-PID touch screen only connect to our temperature controllers with RS485 output.
- 2-For clicking on commands, you need move the cursor to the exact place. You can record or stop temperature recording by clicking Record or Stop REC icon.
- 3-Bottom of the screen shows situation of temperature controller connecting, temperature recording, used space, firmware version, date and time.
- 4- Up to 64 temperature controllers can be connected to A1 and B1 (RS485 connection). Just increase the channels (address) to 1,2,3... on your HMI system (Setting->communication setting-> number of address).
- 5- The HMI-PID comes with 4 panel mount holders for installing the HMI display on your needed panel.

Recognize your HMI system

Plug the temperature controller box and then plug the HMI system (it turns on after few seconds). We setup the temperature controller box with HMI touch screen when you buy them together, but If the touch screen HMI does not recognize your temperature controller, please click on "Search" and then click on "Recognize". Then the software recognize your temperature controller. When the process done click on "Apply", for saving the setup.

Wiring instruction:

If you need to wire one or more than one temperature controller to HMI system, you need to follow following instruction.



- Bus structure:** The network topology should follow a bus structure as closely as possible. That is, the connection between each node and the bus itself should be as short as possible. Basically, it should be short compared to the length of the bus.
- Bus termination:** Especially for longer busses and/or multiple nodes connected to the bus and/or high communication speeds, the bus should be properly terminated at both ends. Most of our modules do not integrate any termination resistor (please check with the datasheet). Therefore, 120 Ohm termination resistors at both ends of the bus have to be added externally.
- No floating Bus lines:** Avoid floating bus lines while neither the host/master nor one of the slaves along the bus line is transmitting data (all bus nodes switched to receive mode). Floating bus lines may lead to communication errors. In order to ensure valid signals on the bus it is recommended to use a resistor network connecting both bus lines as well defined logic levels. In contrast to the termination resistors this network is normally required just once per bus. Certain RS485 interface converters available for PCs already include these additional resistors (e.g. USB-2-485).

