

MD01-R4 Remote Display



※ SAFETY ATTENTION ※



1. Do not turn on the power before completing the wiring, cut off the power before changing the wiring.
2. Although the electronic circuit inside this product has been protected to a certain extent, long-term operation in a humid environment will still cause damage to components, so please avoid install and operate in environments such as rain, moisture and with other liquids.
3. An output wire to be used for this product should be inflammable grade FV1 (v-1 grade or above).
4. To prevent induced noise, make sure that the high-voltage wires and power wires are separated.
5. Please avoid installing the product in a place where a strong magnetism, noise, severe vibration, and impact exist.
6. 6.Please avoid using the product near a device generating strong high frequency noise (high frequency welding machine, high-frequency sewing machine, high-frequency radiotelegraph, high capacity SCR controller).

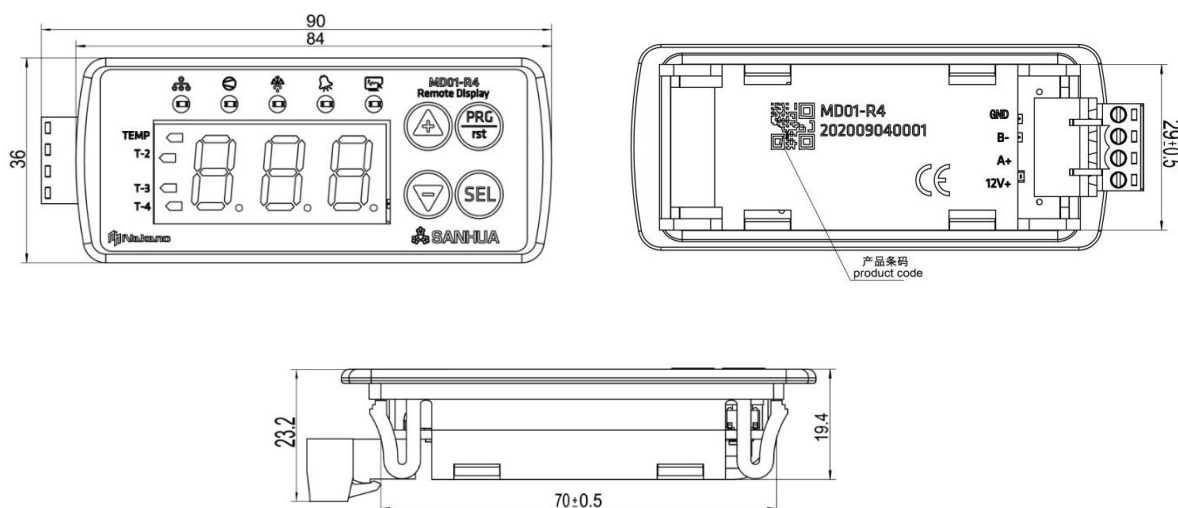
1. Product description

MD01-R4 is used as a remote display for refrigerated cabinet controller, SECR03-R0, to set parameters.

2. General specifications

Items	Description
Power supply	12 Vdc +/-1
Power	Max 4W
Port	Pluggable terminal: Screw M2, torque 0.19N.m Min/Max wire diameter:16-28AWG,22AWG twisted pair shielded cable is recommended
Communication port	RS 485
Operation	-30 ~ 55°C, Humidity≤95%RH
Storage	-30 ~ 55 °C, Humidity≤95%RH
Protection level	IP20
Pollution level	2

3. Dimensions



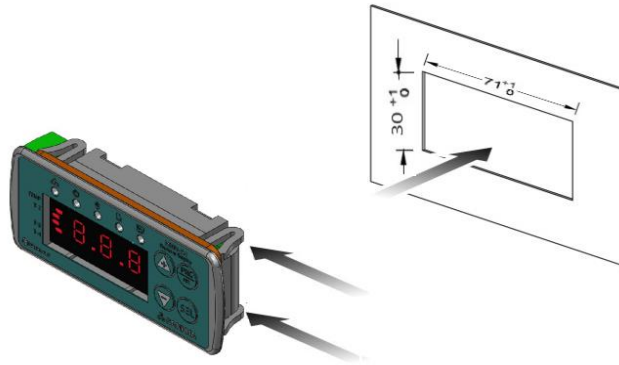
4. Installation

MD01-R4 can be fixed in the hole of the mounting plate through the upper shell buckle,

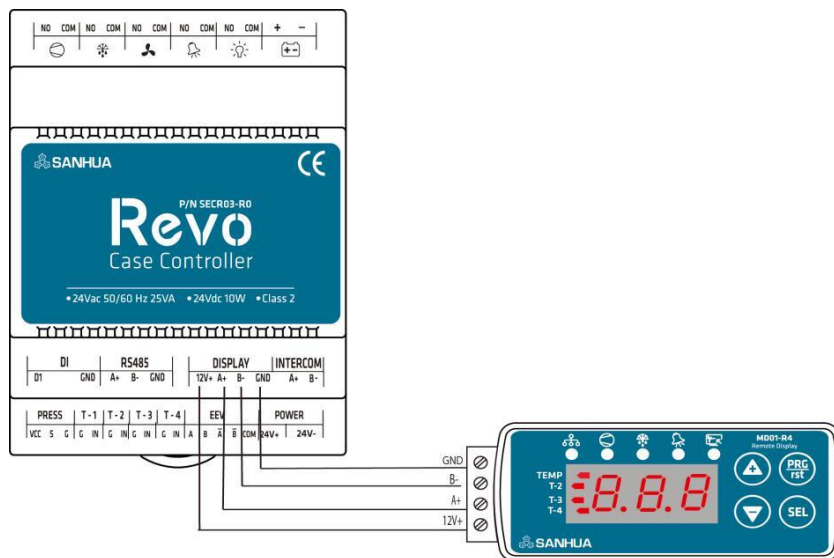
Hole Size : 71 ± 0.1 mm x 30 ± 0.1 mm.

Accepted plate thickness : 0.5 ~ 1.5mm.

Shown as the figure below, before installing, first put the socket through the installation hole, insert the connected plug into the socket, and then fix the display. Be careful not to squeeze too tightly and damage the sealing ring.

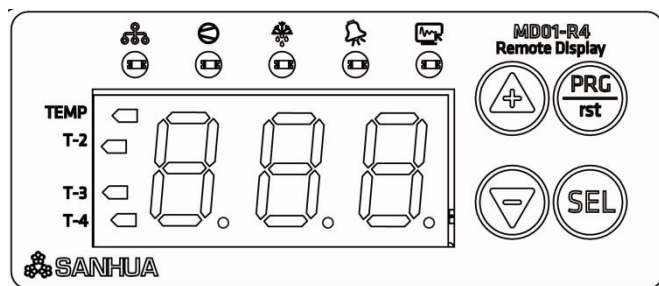


5. Connecting








Code	Function description
12V+	Power input, connect to SECR03 12V+
A+	Connect to SECR03 A+
B -	Connect to SECR03 B-
GND	Power ground, connect to SECR03 GND

6. Display description





Digital Tube	°C/bar	Units of temperature and pressure
	★TEMP	Cabinet temperature
	T-2	Outlet air temp.
	T-3	Inlet air Temp/condensing Temp
	T-4	Defrost Temp
	TEMP +T-2	Suction pressure
	T-2 +T-3	Superheat
	T-3 +T-4	EEV open degree



- ★ Cabinet temperature is displayed by default; press the **[SEL]** key to switch the display content, view other parameters such as T-2 Temp, T-3 Temp, etc., and automatically return to the current freezer Temp display after 1 minute of without operation.



LED		Set as a master controller, LED is ON, Set as a slave controller, LED is OFF
		When compressor or Liquid line solenoid valve work, the LED is ON
		When heater or defrost solenoid valve work, the LED is ON
		When auxiliary control connected, LED light is ON
		When communicate with upper computer/supervision, LED light is ON



7. Button Operation



① Press  for 3s to start control function and digit screen displays “ON”.

Press  for 3s again to close control function and digit screen displays “OFF” , then screen will be off. Under “OFF” mode, the timer will keep running while other controls of cooling, defrost and evaporating fan are OFF.

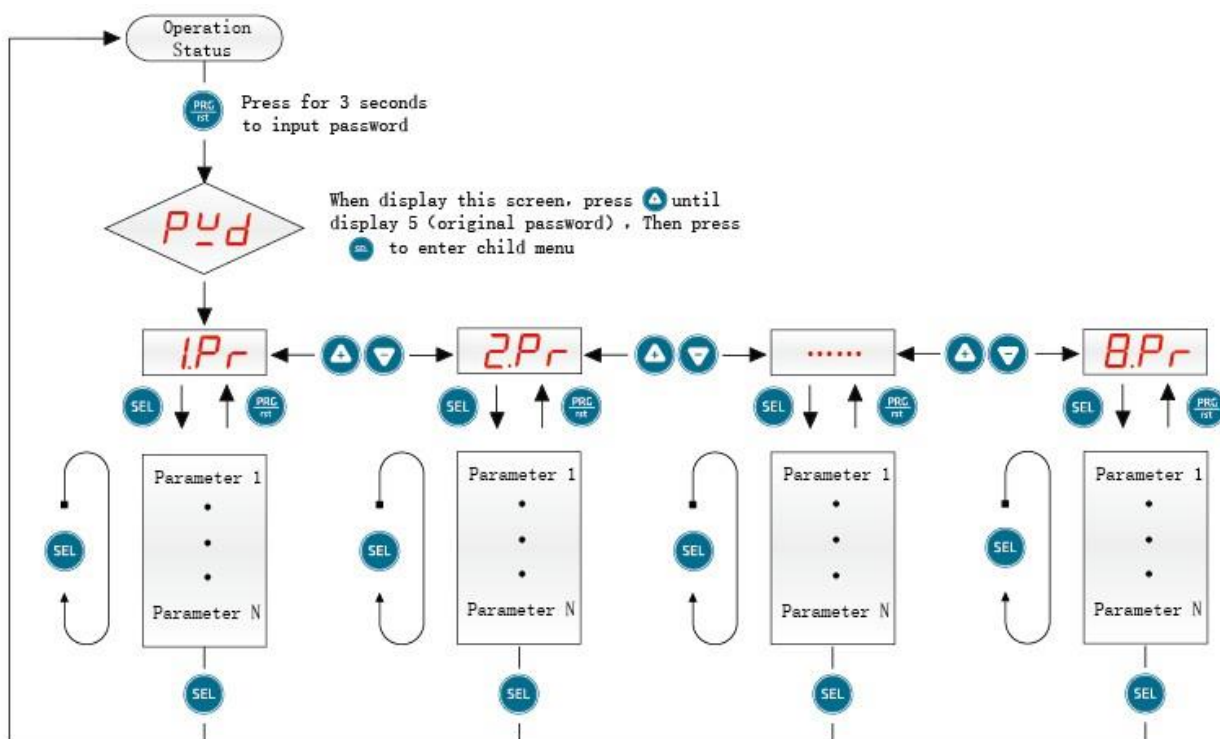
② During press defrost mode, press   for 3 seconds to compulsively quit defrost mode and start the cooling mode.





During cooling mode, press   for 3 seconds to compulsively end the cooling mode and start defrost mode. Forced defrosting is an additional process and does not affect the defrosting settings of system; it is invalid when the control function is OFF.

③ Long press   for 3s, entering or exiting the fault display.




④ Long press   for 5s, reset manually reset alarms.





8. Parameter setting steps




① Long press the  key for 3s, and enter the password through the   buttons, press the  key to confirm, and enter the parameter setting mode (When input wrong password, users can check the parameters but cannot modify the parameters. Default password = 5, which can only be modified through RS485 communication).

② Input password to enter page Menu (1.Pr, 2.Pr, 3.Pr, 4.Pr, 5.Pr, 6.Pr, 7.Pr, 8.Pr).

Press   (short press ± 1 , long press ± 10) and  to enter the target page.

③ Press  to select the parameter needed to be revised and press   to revise the value. Press  to access to next parameter and press "PRG" to return to page menu.

④ Press  for 3 seconds to save the parameter setting and exit parameter setting mode.
Without operation after 1 minute, automatically exit the parameter setting.