SANHUA

GENERAL SPECIFICATIONS

- ADVANCED PID ALGORITHM TO ENSURE ACCURATE AUTOMATIC ADJUSTMENT OF SUPERHEAT
- ALARM FEATURE FOR LOW AND HIGH SUPERHEAT
- EASY TO INSTALL; DIN RAIL OR SURFACE MOUNT
- MAXIMIZES SYSTEM EFFICIENCY WITH PRECISE SUPERHEAT CONTROL
- ALTERNATE USE AS AN ELECTRIC VALVE DRIVER
- OPERATES SANHUA LPF OR DPF(S03) SERIES EEVS

HOW TO VIDEO: SEC61X SERIES EEV

Click on the QR Code to access a How to Video on the SEC61X.

How to Video on SEC61X

TECHNICAL LITERATURE: SEC61X SERIES EEV

Click on the QR Code to access a technical literature on the SEC61X.

Technical Literature

TECHNICAL SUPPORT

For additional technical information and to learn more about Sanhua's full product line, please visit:

sanhuausa.com

Technical information

**https://www.sanhuausa.com/us/en/technical-info**

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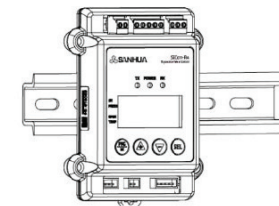SANHUA INTERNATIONAL
info@sanhuausa.com

SEC61X SERIES EEV
QUICK START GUIDE

SANHUA

The Sanhua SEC61x Series controller is a standalone controller for refrigeration and air conditioning systems. The controller can be used to operate an electric expansion valve to control superheat or discharge air temperature. It can also be used as an electric valve driver (positioner) by accepting an external signal from a main system controller.
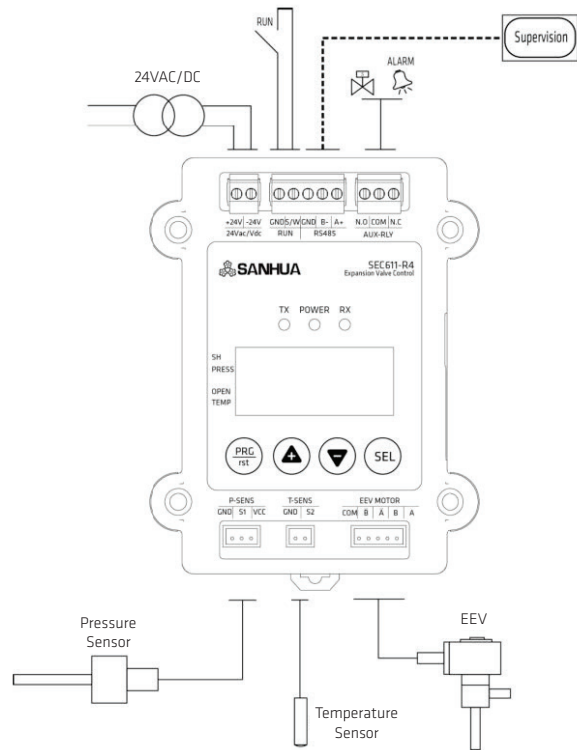

Pressure Sensor

EEV

Temperature Sensor
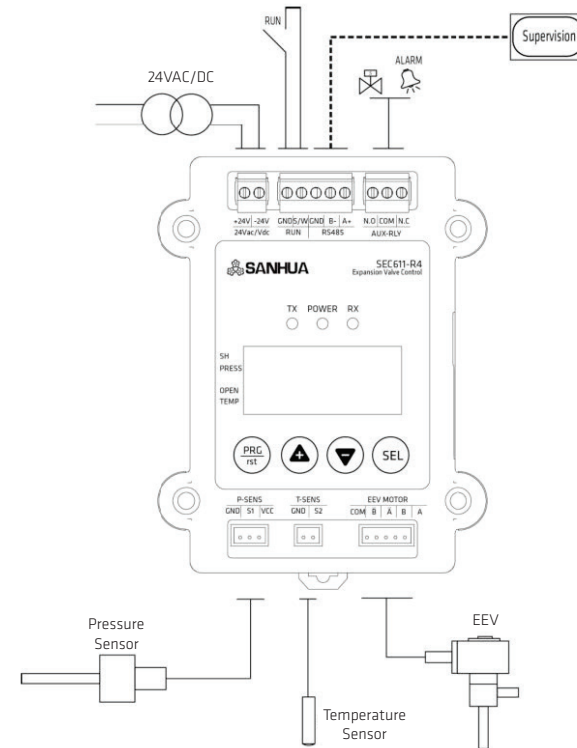
QUICK START GUIDE: SEC61X SERIES EEV

1 **DIN Slide Rail Mounting:**
Mount the controller on the DIN rail by the snap on the back of the controller. Install in the electric control cabinet to avoid moisture and dust.


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QUICK START GUIDE:

24VAC/DC

RUN

ALARM

Supervision

SEC611-R4
Expansion Valve Control

TX   POWER   RX

SH
PRESS

OPEN
TEMP

PRG rst   ▲   ▼   SEL

P-SENS   T-SENS   EEV MOTOR

Pressure
Sensor

Temperature
Sensor

EEV

② **Sensors Installation:**
Pressure transmitter/temperature sensor installed on the tube of evaporator outlet. If the system is divided into several evaporators, install pressure transmitter/ temperature sensor at each evaporator outlet.

RUN

EEV   Evaporator   P-sensor   Compressor
T-sensor
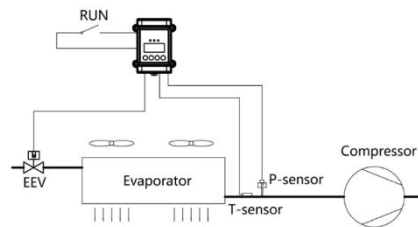
③ **Setting the System Refrigerant in the Controller:**

1. During operating status, press and hold 🔘 for 3 seconds and you'll see the **PYd** screen.

2. Press 🔼 until screen displays 5 which is the default password, then press **SEL** to enter the parameters table list.

3. Press 🔼 so that **2_Pr** is displayed, then press **SEL** twice and you'll see **rFY** which is the system refrigerant menu.

4. Press 🔼 🔽 to select the number code for your system refrigerant.

REFRIGERANT TABLE

0=R-22	5=R-507	10=R-513A	15=R-744(N20)	20=R-407F	25=R-455A
1=R-404A	6=R-1234ze	11=R-448A	16=R-32	21=R-124	
2=R-410A	7=R-1234yf	12=R-449A	17=R-245fa	22=R-717	
3=R-134a	8=R-290	13=R-452A	18=R-23	23=R-407H	
4=R-407C	9=R-450A	14=R-744(CO2)	19=R-407A	24=R-454C	

5. Press and hold **SEL** for 5 seconds to save your setting and you'll see **---** which confirms the setting is stored.

⚠️ **SAFTEY TIPS**

1. Finish connecting wiring before turning on power.
2. The RUN port (compressor signal) is a passive port. If you add a voltage, it may cause the controller burn out.
3. When using a transformer, ensure minimum power of 15 VA (for 1 controller + 1 EEV).
4. Wire diameter: 28 to 16 AWG