



Application

ESRD-TRS130, depending on the selected heating or cooling mode, is designed to measure the temperature of load via external sensor. It can be used for monitoring temperature in switchboard, heating systems, cooling systems, open space, etc.

Main technical data

Supply terminals	A1,A2
Supply voltage	AC/DC 24-240V
Rated frequency	50/60Hz
Power consumption	1.5W
Measuring terminals	T1,T2
Alarm terminals	21, 24
Output terminals	11, 14
Temperature range	-25~130°C
Hysteresis	1~30°C
Correction range	-9~9°C
Setting step value	1°C
Display	LCD with backlight
Output contact	1NO
Current rating	16A/250V AC1
Switching capacity	4000VA/AC1, 300W/DC
Alarm current rating	2A/250V AC1
Protection degree	IP20
Pollution degree	3
Electrical life	10 ⁵
Mechanical life	10 ⁶
Altitude	≤2000m
Ambient temperature	-20°C~+55°C
Humidity	50% @40°C(without condensation)
Storage temperature	-30°C~+70°C
Wire size	0.5mm ² ~1mm ²
Torque	0.5Nm
Mounting	TH-35 Rail

Temperature sensor

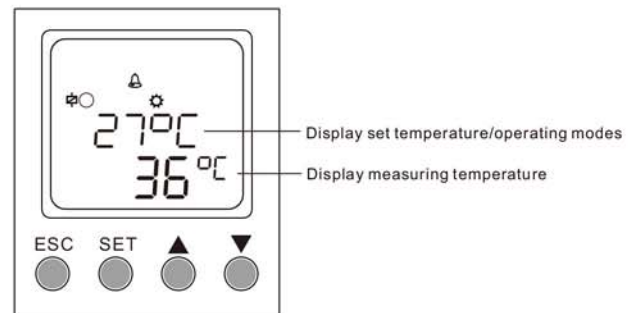
Model	RT801
Measure element	KTY81-210
Sensor dimensions	φ6mmx50mm
Sensor material	Stainless steel
Cable size and length	2x0.3mm ² /2.5m
Cable material	Silicone

Features

- Microcontroller based
- Modular design, 36mm wide housing
- Heating/cooling operating modes selectable
- LCD display operating modes, set and operating temperature
- Temperature measurement range -25°C~130°C
- Alarm function
- Auto-reset
- Easy to set with keys
- AC/DC 24-240V wide input range
- DIN-Rail mounting

Operating instruction

Display

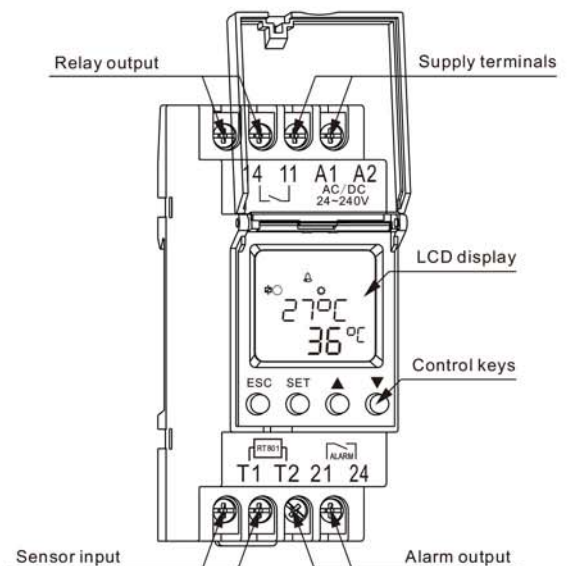


Symbol legend

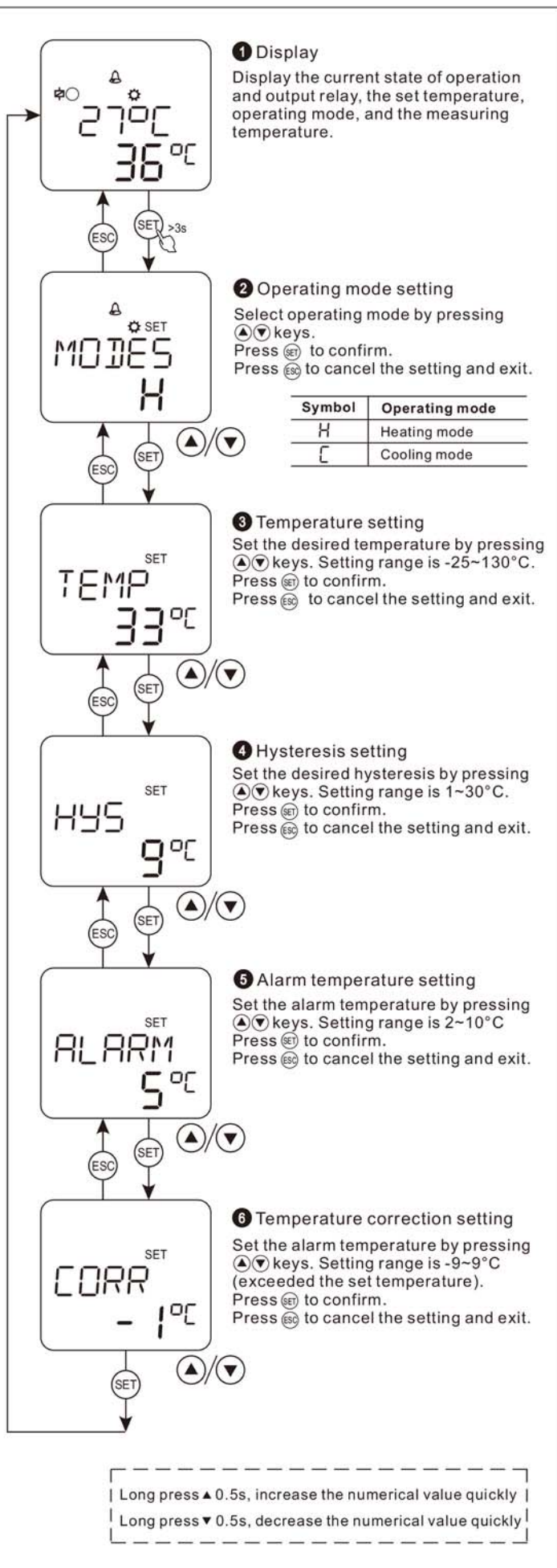
- ☉ — output contacts close
- ☉ — output contacts open
- SET — menu setting
- MAX — Measured temperature ≥150°C, display value is 150°C.
- MIN — Measured temperature ≤-55°C, display value is -55°C.
- ⚠ — Alarm
- ⚙ — Heating mode
- ❄ — Cooling mode

Keys

ESC ●	○Exit from settings	SET ●	○Enter setting menu ○Confirm selection
▲ ●	○Select menu ○Digit +	▼ ●	○Select menu ○Digit -

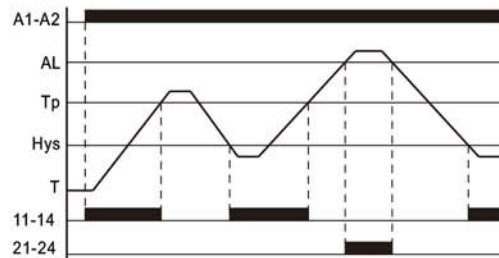


□ Menu settings

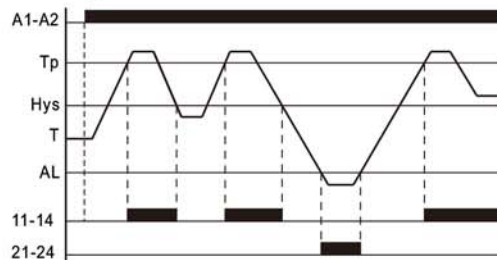


□ Function diagrams

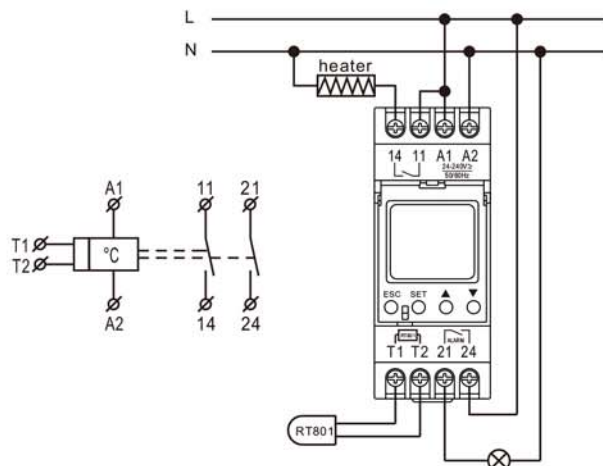
○ Heating mode



○ Cooling mode



□ Wiring diagrams



□ Dimensions

