Honeywell

Series PCR-100 / PCR-110

ELECTRONIC THERMOSTATS

PRODUCT DATA

PCR-100

PCR-110

Application

PCR-100 and PCR-110 are microprocessor-controlled thermostats for refrigeration, deep freeze systems and for general purpose use.

The electronic thermostats can be used for cooling and heating application in a temperature range of -55 °C to +50 °C.

Material

Housing	ABS-plastic, self-extinguishing

Features

- **User friendly programming**
- **Thermostat for refrigeration and heating**
- **Relay output**
- **Defrost option for plus cold stores with continuous operation of evaporator fan**
- **Alarm output relay**
- **Red digital display, good visibility**
- **PCR-100: Module housing for 35 mm standard DIN rail**
- **PCR-110: Snap-in installation housing for aperture 28.5 x 70.5 mm**
- **PTC sensors with stainless steel sleeves**
- **Mains transformer integrated**

Specification

Power supply	230 V, ±10 %, 50/60 Hz
Power consumption	2.1 Watt
Control performance	on-off
Display	3-digit, 7-segment, LED red, height 14.2 mm
Resolution	1 K
Display accuracy	±0.5 K internally, ±1 digit at 25 °C
Measuring range	-55 °C to +50 °C
Input	1 PTC sensor
Outputs	**compressor or heater:** 1 relay with changeover contact, 8 A, 230 V AC resistive load
	alarm: 1 relay with N. O. contact, 5 A, 230 V AC, resistive load
Sensor	PTC sensor, cable length 2.5 m, accuracy ±2 %
	range of use: -30 °C to +80 °C cable not fixed -40 °C to +80 °C cable fixed
Ambient temperature/humidity	in operation: 0° to + 50 °C, 30 to 85 % R.H. excluding dew
	in storage: -20 °C to +80 °C
Data back up	Non-volatile memory EEPROM
Connectors	250V / 10 A screw-type terminal strips, max. 1.5 mm²
Protective rating	Housing: IP 20, front panel: IP 52, protection class 2

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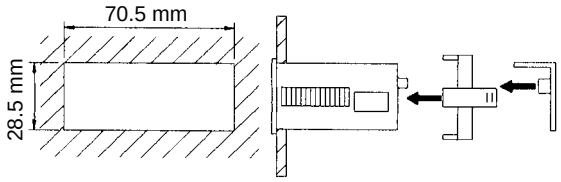
Dimensions and Weight

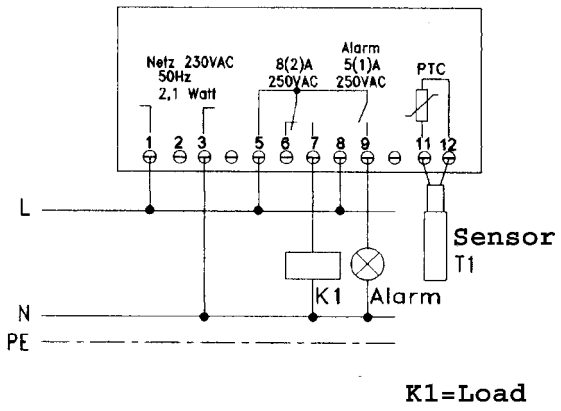
Type	Dimensions of housing (mm)			Weight (kg)
	W	H	D	
PCR-100	70	85	61	approx. 0.33
PCR-110	70	32	74	approx. 0.24

Installation

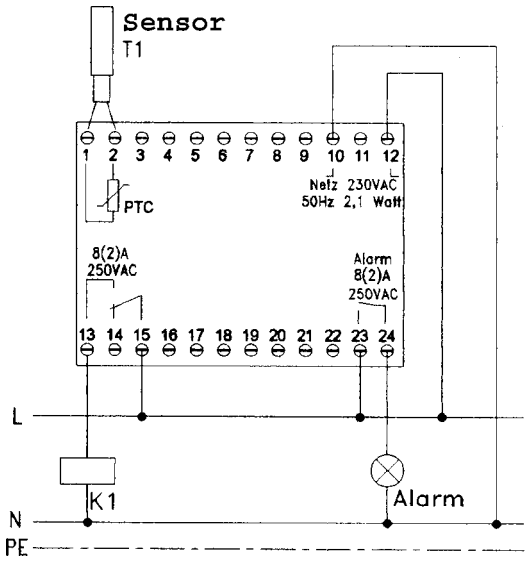
- Operate only in dry places
- Snap-in installation housing:
  - Fit unit in a recess 28.5 x 70.5 mm
  - maximum wall thickness: 22 mm
  - Secure housing with the mounting frame
- 4 DIN standard modular housing:
  - Open out the side mounting tabs
  - Clip the unit on to 35 mm rail
  - press tabs in again
- Respect the wiring diagram
- Tighten screws of connectors carefully



PCR-110



PCR-110



PCR-100

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