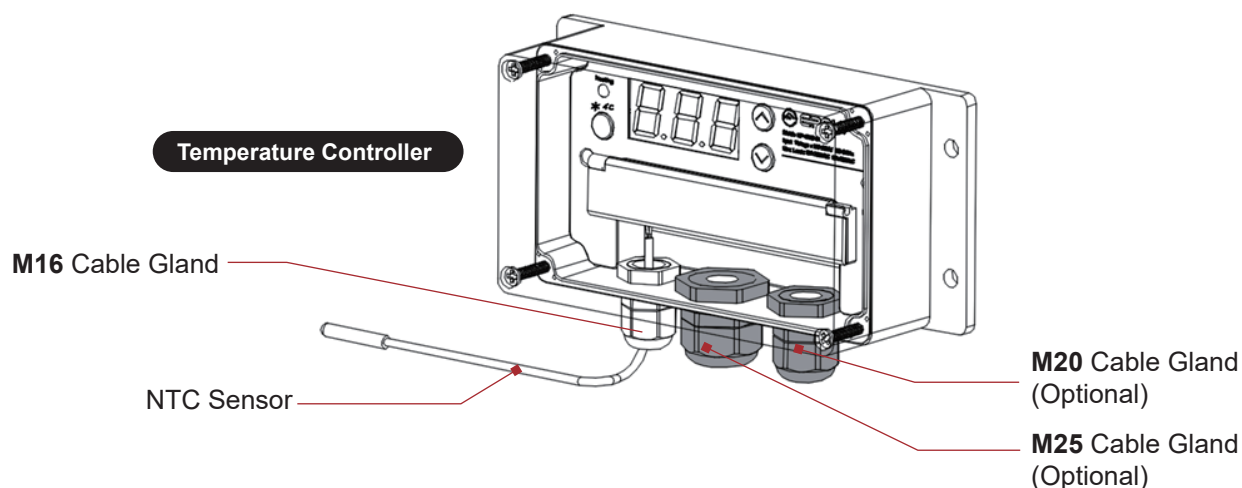


Outdoor Thermostat

Description

The EPT-R01 thermostat is designed for non-hazardous locations. This digital thermostat incorporates a LED display to deliver precise temperature management. It is ideal for a wide range of commercial and general industrial applications, including pipe freeze protection and temperature maintenance, freezer frost heave prevention, electric underfloor heating, and road or pavement de-icing.



Standard Package Contents

EPT-R01:

- Temperature Controller ×1
- NTC Sensor (3 m) ×1
- M16 Cable Gland ×1

Optional Accessories:

Item	Description
M20 Cable Gland	For power cable (Ø 6–12 mm)
M25 Cable Gland	For heating cables (Ø 9–14 mm)

Ordering Information / Selection Guide

All models include the EPT-R01 standard package unless otherwise specified.

Model Configuration		Cable Gland Inclusion Overview		
Model No.	Configuration	M16	M20	M25
EPT-R01	Standard package	•	—	—
EPT-R01A	Standard package + M20 cable gland	•	•	—
EPT-R01B	Standard package + M25 cable gland	•	—	•
EPT-R01AB	Standard package + M20 & M25 cable glands	•	•	•

Features

Precision Temperature Control: Adjust the setpoint easily in 1°C increments using the intuitive up and down buttons. An integrated status indicator provides real-time visual feedback on the user's operation.

Fault Detection & Alert: Enhances system reliability by reacting to sensor abnormalities.

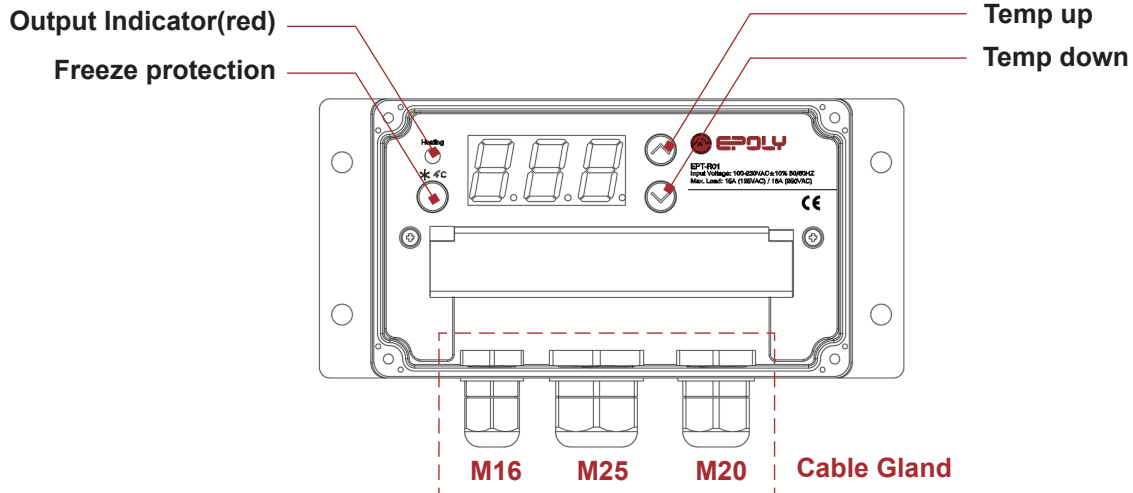
When an abnormal condition is detected, the LED panel displays a flashing “ERR” warning, and the relay operates according to the user-configured sensor error setting (ON or OFF).

Configurable Maximum Temperature Limit: Restricts the highest temperature setpoint selectable by the user to prevent inadvertent high-temperature settings and reduce overheating risk.

NTC temperature Calibration: Provides a temperature calibration function that allows users to correct measurement deviations when replacing the temperature sensor or using a non-standard sensor.

Versatile Applications: Designed for versatile applications, suitable for both freeze protection and temperature maintenance across a wide range of systems.

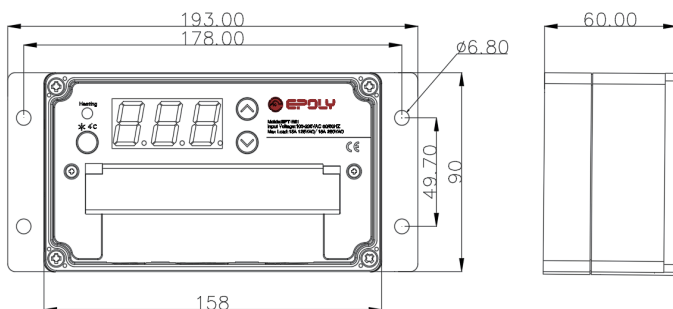
Panel Diagram



Characteristics

Technical Parameters	
Input Voltage	100 ~ 230 Volts $\pm 10\%$ 50/60Hz
Maximum Output Current	15A (250V AC)/16A (250V AC)
Adjustable Temperature	-19 ~ 70°C
Operating Ambient Temperature	-20 ~ 50°C
Storage Temperature	-40 ~ 80°C
Temperature Sensor	
Length	3m
Specification	R25=10K $\Omega \pm 1\%$, B25/50=3950K $\pm 1\%$
Enclosure	
Dimensions	158×90×60 mm
Base Material	Gray ABS
Top Cover Material	Transparent PC
Protection	IP65
Cable Entry Holes	1 x M16 (Cable diameter 4~8 mm) for NTC sensor 1 x M20 (Cable diameter 6~12 mm) for power input cable 1 x M25 (Cable diameter 9~14 mm) for heating cables

Dimensions(mm)



Wire and cable connection

