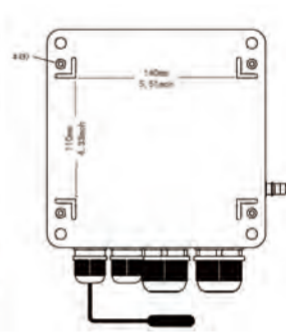
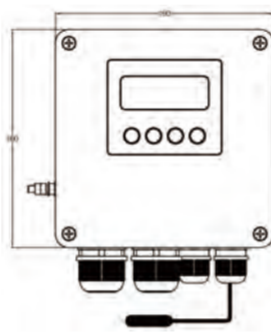


## PTDC explosive-proof Digital Display Temperature Controller



- The PTDC explosive-Proof Digital Display Temperature Controller is a precision and reliable temperature control device for heat tracing applications, capable of local installation, display, control, as well as remote monitoring.
- This product features an anti-corrosion, enhanced safety polyester casing. The display buttons and sensor parts use intrinsically safe circuits, while the relay components are encapsulated. Certified by third-party institutions, it is suitable for hazardous areas Zone 1 and 2 (Gas) and Zone 21 and 22 (Dust), as well as non-hazardous areas.
- explosive-Proof Rating: Ex eb ib mb IICT4 Gb

### Characteristics:

- Includes an intrinsically safe sensor for temperature measurement and real-time display
- Allows setting of temperature value, control differential value, and initiation of electrical heat tracing tape below the set temperature
- Capable of detecting sensor faults
- Relay alarm signal functions are programmable
- Equipped with Modbus RTU communication
- Features a viewing window and external operation buttons
- Parameters can be set and modified in real time
- Local control of heat tracing tape output is possible (smart temperature controller)
- Maximum surface temperature of the heat tracing tape can be limited

### Basic data:

Rated voltage	Ambient temperature range	Rated current	Measurement Process Temperature	Product temperature group
AC220V	-40°C ~ 55°C	32A	-40°C~125°C	T4, T135°C

### Technical data:

Ambient Temperature Range: -40°C~+55°C

Relative humidity: ≤95% RH

Shell: Enhanced safety polyester black shell

Dimensions: 160mm\*160mm\*102mm (L\*W\*D)

Protection level: Ip66

### Electric data:

Rated voltage: AC220V (-10%~+20%)

50Hz (47Hz~63Hz)

Rated current: 32A

Sensor Type: PT100, 3-wire

Measurement Range: -60°C~+200°C (-1 model) or

-60°C~+600°C (-2 model)

Cable Interfaces: Power supply~1 \* M25 gland

Heat tracing tape ~2\*M20 plugs

Communication/Alarm~ 1 \*M 16

gland or plug

Sensor~1\*M16 gland

Weight: Approx. 3.3 kg

Measurement Accuracy: ±11<@5°C

No-load power consumption: Pmax=5VA

Full-load power consumption: Pmax=7kVA

Alarm Relay Contact Capacity: 5A250Vac

Communication Protocol: Modbus RTU

Communication Hardware Form: Rs485

The PTDC Temperature Controller/Limiter does not include a connection accessory kit. If needed, please order separately as it depends on the model of heat tracing used. Confirm with local Jiahong technical personnel.