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F-Series Temperature Controllers

Models Available

FTST K Type Thermocouple Input
FPRT PT100 Input (2 or 3 Wire)

Product Features

- On/Off temperature control action
- K type thermocouple or PT100 input
- Supply voltage 110Vac or 230Vac
- Deviation meter output on PT100 model
- Standard DIN48 square size
- Plug-in socket or panel mounting
- Matching timers available
- Plug-in sockets also available

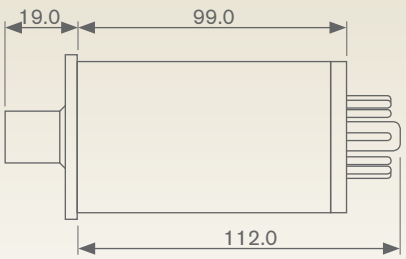
The Tempatron F-series temperature controllers are simple on/off temperature controllers for control of temperature processes in a wide range of industrial applications. The FTST model is for a K type thermocouple input and the FPRT model is for a 2 wire or 3 wire PT100 (RTD) input.

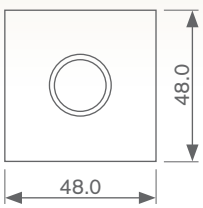
The temperature controllers are housed in a compact DIN48 square enclosure which can either panel mount or surface/DIN rail mount to a socket and they are auxiliary powered from either 110Vac or 230Vac.

The 5 Amp rated single pole changeover relay output contact is isolated from the supply voltage, and the temperature controllers have two LEDs to indicate both power and relay status.

For temperature control in machinery, systems and operational processes

Dimensions



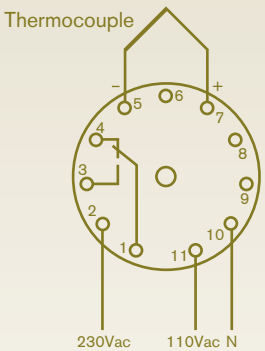


Panel cutout 45mm square (-0.0/+0.5)

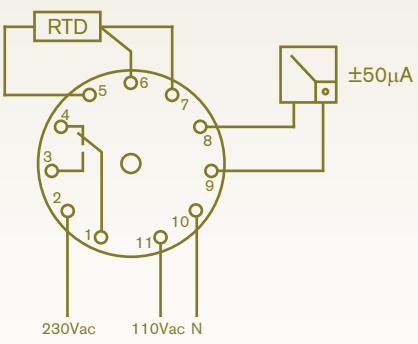
All dimensions in mm

Connections

FTST



FPRT



Ordering information

Model	Code	Description
	FTST200K	K Type Thermocouple Input 0 to 200°C
	FTST400K	K Type Thermocouple Input 0 to 400°C
	FTST1200K	K Type Thermocouple Input 0 to 1200°C
	FPRT100	PT100 Input -50 to 100°C

Auxiliary Power	Code	Description
	110/230VAC	110Vac and 230Vac

Plug-in Bases	Code	Description
	C1004	Panel Fixing Clamps
	CDSR11	11 Pin Rear Screw Panel Socket
	AZ611	11 Pin DIN Rail/Panel Mount Socket
	S11P	11 Pin DIN Rail/Panel Mount Socket

Example	**FPRT100-110/230VAC**

Specification

Repeat Accuracy:
- ±1% of full scale

Power Supply Voltage:
- 110Vac and 230Vac (±15%)

Burden:
- <4VA

Frequency:
- 50/60Hz

Input Sensor:
- K type thermocouple
- 2 wire or 3 wire PT100

Hysteresis:
- 0.5% of full scale

Relay Output:
- Single pole changeover contact

Contact Rating:
- 5A at 240Vac/30Vdc (resistive)

Electrical Contact Life:
- 100,000 operations at 5A

Deviation Meter Output:
- ±50µA (PT100 model only)

Operating Temperature:
- -10°C to 50°C

Enclosure Code:
- Case IP40

Weight:
- 190g

Markings:
- CE marked (meets EN61010-1 low voltage and EN50081-1/50082-1 EMC directives)

Specification subject to change without notice.

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

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