

GREYSTONE ENERGY SYSTEMS INC

HIGH PRECISION OUTSIDE TEMPERATURE TRANSMITTER TE500F Series



PART NUMBER SELECTED

The TE500F, single point outside air temperature sensor utilizes a high precision platinum RTD sensor. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penatration. A sun and wind shield is integrated into the enclosure. The F series is provided in a weatherproof ABS enclosure A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. (See ordering chart)

APPLICATIONS:

- Laboratories
- Medical
- Pharmaceuticals
- Any application where high precision temperature monitoring is required

SPECIFICATION:

Sensor Type:Platinum RTD 100 or 1000 Ω, 385 Alpha @ 0°C
Operating Rnage:20 to 85 $^{\circ}$ C (-58 to 158 $^{\circ}$ F)
Sensor Accuracy: Class A: ±0.15°C @ 0°C 1/10 DIN: ±0.03°C @ 0°C
Output Signal: Current: 4-20 mA Current Loop Voltage: 0-5 or 0-10 Vdc (factory configured)
Transmitter Accuracy:±0.1% of span, including linearity
Power Supply:
Consumption:Current: 22.5 mA Max (On open sensor) Voltage: 5 mA nominal
Wire Material:
Enclosure:(F) - ABS - NEMA 3R (IP64), Hinged cover
Termination:2 or 3 wires Screw Terminal block (14 to 22 AWG)



GREYSTONE

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PRODUCT SELECTION INFORMATION:

MODEL Product Description

TE500F Outside Temperature Transmitter, Hinged ABS Weatherproof Enclosure

CODE Sensor 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A 18 22 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN 37 100 $\Omega\,$ Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN 100 $\Omega\,$ Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A 38 CODE Output 1A 4-20 mA 1D 0-5 Vdc 0-10 Vdc 1E CODE Range 0-35°C (32 - 95°F) 1 0-50°C (32 - 122°F) 2 0-100°C (32 - 212°F) 3 -50 - 50°C (-58 - 122°F) 6 TE500F 18 1A 2

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The TE500F should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight.

The TE500F can be mounted directly to buildings wall face using the provided mounting holes. There is one $\,0.85''$ holes for conduit connection.



