



TEMPERATURE TRANSMITTER MODEL 577506

The Model 577506 RTD Temperature Transmitter is designed for close-coupled, integrally mounted applications. Using micro-controller based circuitry, the 577506 senses resistance changes as a function of temperature and provides an extremely stable and accurate 4 to 20MADC loop output. Field range-ability and user selectable features allow a single device to satisfy virtually all temperature applications. Re-calibration or programming is done in seconds using standard hand tools. No soldering or component changes are necessary. The transmitter is housed in a gasketed, explosion-proof enclosure, CSA and UL approved for Class I, Groups C & D, Class II, Groups E, F, & G, and Class III locations.

RTD TEMPERATURE TRANSMITTER

TECHNICAL SPECIFICATIONS

INPUT

100 ohm platinum RTD
alpha = .00385
2 or 3 wire

RANGE

-300 to 1300 F (-190 to 700 C)
degrees C/F switch selectable

RTD SENSOR CURRENT

400 micro amps

SPAN

switch selectable
30 degrees F minimum
1200 degrees F maximum
(20 degrees C minimum)
(700 degrees C maximum)

ZERO SUPPRESSION

switch selectable
-300 to 970 degrees F
(-190 to 720 degrees C)

SPAN AND ZERO ADJUSTMENT

(Output adjustment)
+/- 5%

ACCURACY

0.05% of span at 75 deg. F (typical)
(Linearity, Repeatability, Hysteresis)

AMBIENT EFFECT

0.002% of span / degree F (typical)

OUTPUT

4 to 20 MADC into 600 ohms @ 24 VDC

POWER

12 to 36 VDC

COMPENSATED TEMPERATURE RANGE

-40 to 158 degrees F

OPERATING TEMPERATURE RANGE

-40 to 158 degrees F

UPDATE TIME

20 readings / second

RESPONSE TIME

3.2 Seconds (input to output max)

UP/DOWN SCALE BREAK

Switch selectable

ENCLOSURE

Explosion Proof/Gasketed
Class I, Groups C&D
Class II, Groups EF&G, Class III
Copper Free Aluminum (K-27)
Blue Polane Finish

WIRING CONNECTIONS

Screw Terminal

ELECTRONIC ASSEMBLY

Printed Circuit Board
FR-4 Fiberglass Laminate, Epoxy Solder Mask
Dow-Corning Conformal Dip Coated



Field Range-able
Two Year Warranty

OPTIONS

3/4" and 1" NPT Process Conn.
316SS Thermowell
Custom Lengths and Styles

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