



INDICATING TEMPERATURE TRANSMITTER MODEL 571004

The 571004 linearized digital indicating thermocouple transmitter measures thermocouple voltages as a function of temperature and provides a linearized 4 to 20MADC output loop signal. Integrally mounted 3 1/2 digit LCD display provides local indication of the process temperature in degrees C or degrees F. The transmitter is housed in an explosion-proof enclosure certified to NEMA 4/7/9, CL 1, GR-B, C, & D; CL 2, GR-E & G and provides two 1/2 inch NPT wiring ports. The enclosure is constructed of copper-free aluminum and is finished in safety-blue epoxy. The spring loaded thermo-couple sensor is integrally mounted, permitting close-coupled mounting at the point of measurement.

TECHNICAL SPECIFICATIONS

INPUT RANGE:

T/C Type "J" 0 to 1300 Degrees F Max.
T/C Type "K" 0 to 2400 Degrees F Max.
T/C Type "T" 0 to 700 Degrees F Max.
T/C Type "E" 0 to 1800 Degrees F Max.
"K" Type Thermocouple Standard
All ANSI Types Available

INPUT SPAN:

5 Millivolt Min.

OUTPUT:

4 to 20MADC into 600 Ohms @ 24VDC

ACCURACY:

+/-0.2 % of Span

LINEARITY:

Type "J" (Iron-Constantan)
0 to 400 Degrees F +/-0.15% Nominal
400 to 800 Degrees F +/-0.02% Nominal
800 to 1300 Degrees F +/-0.20% Nominal
Type "K" (Chromel-Alumel)
0 to 800 Degrees F +/-0.09% Nominal
800 to 1600 Degrees F +/-0.11% Nominal
1600 to 2400 Degrees F +/-0.20% Nominal

Type "T" (Copper-Constantan)
200 to 400 Degrees F +/-0.19% Nominal
300 to 600 Degrees F +/-0.20% Nominal
400 to 700 Degrees F +/-0.18% Nominal

Type "E" (Chromel-Constantan)
200 to 400 Degrees F +/-0.14% Nominal
400 to 800 Degrees F +/-0.10% Nominal
800 to 1800 Degrees F +/-0.14% Nominal

POWER:

12to 36 Volts DC, 24 Volts DC Nominal

COMPENSATED TEMPERATURE RANGE:

-20 to + 140 Degrees F

ZERO AND SPAN EFFECT:

Less than .02% per Degree F

DISPLAY:

0.5" High, 3 1/2 Digit Liquid Crystal
Indexable in (4) 90-Degree Increments

ANNUNCIATION:

Jumper Selectable "F" or "C"
D.P. Programmable X.XXX. XX.XX, XXX.X, XXXX.
Auto Polarity Indication
Open Input Over Range Blanking

UPDATE TIME:

3 Readings Per Second Nominal

ZERO AND SPAN ADJUSTMENT:

Transmitter +/- 20% of Span Typical
Indicator: Span +/- 50% Typical
Zero +/- 100% Typical

ENCLOSURE:

NEMA 4/7/9 Gasketed Housing
CL-1, GR-B, C, D; CL-2, GR-E and G
Two 1/2-Inch NPT Wiring Ports
Copper-Free Aluminum
"Safety Blue". Epoxy Finish

WIRING CONNECTIONS:

4 Position, Box Clamp Terminal Block with
(4) #18 Flying Leads

EMI/RFI IMMUNITY:

Less Than 0.8% of Span at 10V/M
Per SAMA: 2 ac: 0.8% 2ac: 1.25%
Ref: Standard PMC 33.1-1987

INDICATING TEMPERATURE TRANSMITTER



MODEL 571004

STANDARD MODELS

571004-	..U..	=	1.5"	-304SS
571004-	..U..	=	2.5"	-304SS
571004-	..U..	=	4.5"	-304SS
571004-	..U..	=	7.5"	-304SS
571004-	..U..	=	10.5"	-304SS
571004-	..U..	=	13.5"	-304SS
571004-	..U..	=	16.5"	-304SS
571004-	..U..	=	22.5"	-304SS

1/2-Inch NPT Process Connection Standard
Optional 3/4 and 1 Inch Process Connections
Optional 316 SS Thermowell

FEATURES

Spring Loaded T/C Sensor
Linearized Output
Epoxy Finish
Group "B" Housing
1/2" Digital Display
Selectable F or C Display

