RAIL MOUNTING TRANSMITTER
R/T88000

2-wire rail mounting transmitter

R/T88000
- Analogue transmitter
- Pt100 (RTD) or T/C input
- Free scalable
- High accuracy (Typical 0.1%)
- Very fast response time
- ATEX approval available
- 5 Year warranty

Specifications

V_{nom}	24 VDC
T_{amb}	25°C
Span nom.	RTD = 100°C T/C = 250°C
General specifications	
Output	4 – 20 mA
Power supply	12 – 36 VDC, polarity protected (ATEX certified units 12 – 30 VDC)
Zero drift	± 0.02%/°C
Span drift	± 0.02%/°C
Supply voltage effect	± 0.01%/V
Sensor burn out	Upscale > 23mA or downscale < 3.8 mA
Load capability	(V[bat] – 12 V) / 20mA
Ambient Operating Temp.	-20...+70°C
Storage Temperature	-20...+100°C
Ingress Protection	IP30
Housing Material	Makrolon
Housing Dimension W x H x D	22.5 x 75 x 99 mm (0.89" x 2.92" x 3.9")
ATEX certification	Ex II 1G EEx ia IIB T4
Pt100 (alpha = 0.00385)	**Model R88000**
Zero adjustment	Between -50 and +350°C
Span adjustment	50 to +800°C
Sensor lead resistance effect	0.01°C/Ohm
Max. sensor line resistance	500 Ohm
Linearization	0.1%
Thermocouple	**Model T88000**
Zero adjustment	Between 0 and +400°C
Span adjustment	T/C K or E: 150 to 1200°C T/C J or T: 150 to 600°C
Cold junction drift	0.03°C/°C
Max. sensor line resistance	10,000 Ohm
Output	Voltage linear

Order information and options

Specify model:

R88000   Input Pt100
T88000-K   Input T/C K
T88000-J   Input T/C J
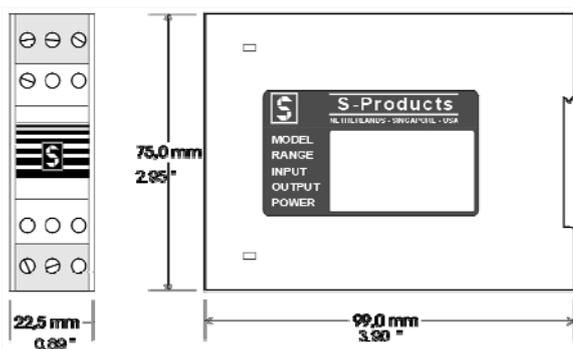T88000-T   Input T/C T
T88000-E   Input T/C E

Example:
Model T88000-K-DS-Ex

Options:
-DS   = Downscale (for sensor burnout), default is upscale
-Ex   = Intrinsically safe version (ATEX Ex II 1G EEx ia IIB T4)

Dimensions

Sensor ranges

Sensor type	Temp. Min. °C	Temp. Max. °C	Span Min. °C	Span Max. °C
Pt100 IEC751	-50	850	50	800
K (NiCr-Ni)	0	1200	150	1200
J (Fe-CuNi)	0	600	150	600
T (Cu-CuNi)	0	600	150	600
E (NiCr-CuNi)	0	1200	150	1200