

INPUT (24bits resolution)		
TYPE	RANGE	ACCURACY
Tc B	200 / 1800 °C	+/- 2 °C
Tc E	-250 / 1000 °C	+/- 0.4 °C
Tc J	-200 / 600 °C	+/- 0.4 °C
Tc K	-200 / 1350 °C	+/- 0.4 °C
Tc R	0 / 1750 °C	+/- 1 °C
Tc S	0 / 1600 °C	+/- 1.5 °C
Tc T	-250 / 400 °C	+/- 0.5 °C
T° Compensation	-20 to 60 °C	+/- 0.3 °C
PT100 2, 3 wires:		+/- 0.3 °C
RTD measure range		-200 / 800 °C
Voltage	0 / 120 mV	+/- 0,02 mV
Current	0 / 30 mA	+/- 0,025 mA
(external shunt of 2.5 ohms)		
Response time		~ 200msec
Sampling rate		6 per sec.
Input impedance		> 1 MOhms
Sensor current (Pt100)		300 µA
resistance line influence		0.3 °C / 10ohms

POWER SUPPLY / OUTPUT (14 bit resolution)	
supply voltage:	13 to 40Vdc (2 wires technology)
Current	4 / 20 mA +/- 0.01 mA
Load resistance	550 Ohms for 24V supply
Intrinsic power consumption	<3.6 mA
Security current programmable	3.6 ... 22mA
(burnout condition)	
Effect of supply voltage change	0.002 % / V
Effect of load stability	0.004 % / 100 Ohms

ENVIRONMENT	
Operating temperature	-30 to 65 °C
Storage temperature	-30 to +85 °C
Thermal drift (% of full scale)	< 0.01 % / °C
Weight	1,4 Kg (without fastening)
Dielectric strength (input / output)	1000 Vrms continuous
MTBF (IEC 62380)	> 2 180 000 Hrs @ 30°C
Life time	> 250 000 Hrs @ 30°C

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	



WIRING AND OUTLINE DIMENSIONS : (example of implementation)

