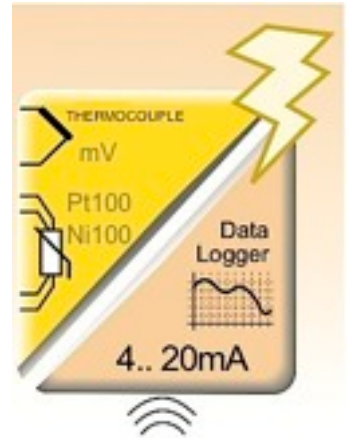


TEMPERATURE TRANSMITTER 4/20MA ACTIVE / PASSIVE HT-TC/RTD-RAIL

- Transmitter with 4-20 mA 2-wire (PASSIVE) for thermocouples, RTD (Pt100 - Ni100) sensors and wireless 2-3-4 for temperature measurement in industrial environments, with excellent EMC characteristics.
- Allows remote transmission temperature , with safety and interference immunity .
- The output is linearized with temperature, with a high load capacity loop that allows a wide range from 6V to 32V supply (protected against polarity reversal) .
- It has an intelligent adaptive filter to stabilize the signal.
- Allows a quick and easy configuration via PC through wireless communication module based programming with USB (promptly via smartphone) . Is not necessary to connect any cable and avoid to waste time and made mistakes with wrong connections. **Available too meanwhile APP smartphone (only Android available)**
- It has an internal data logger that records temperature continuously for subsequent dump to your computer.
- The connection is made by means of terminals plug-in codified which they facilitate the fast interchange of modules with no need to return to twist, and protect before mistakes.
- **High accuracy by the A / D 16bit (< 0.1 ° C).**



HERTEN S.L.
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www.hertensl.com



RFID **WIRELESS PROGRAMMING**
 Quick and easy configuration via PC.
 No connections. Without calibrators.
 (promptly via smartphone).

ERROR CORRECTION
 digitally sensor.
 Calibration gain x
 offset +/-

0,1°C **HIGH PRECISION**
 Allows up to tenths of a degree.
 Example 52.7 ° C.
 2-3-4 probe strands.
 (4-wire high precision).

FLOATING CLAMPS
 Includes spring-loaded screws.
 Facilitates the incorporation
 to DINB heads.



FULLY ISOLATED (And linearization)

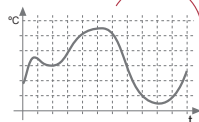
MULTIPLES INPUTS:

Thermocouples (J -K -S -R -T -E -N- B)
 RTD (PT100 & Ni100)

WIDE RANGE: 6 to 32 V
 (low Consumption)

ISOLATION (Input to Output): 1000 vac

DATA LOGGER
 Incorporates recording temperature / time.
 Review of events, failures, ..
 Wireless download to Pc.

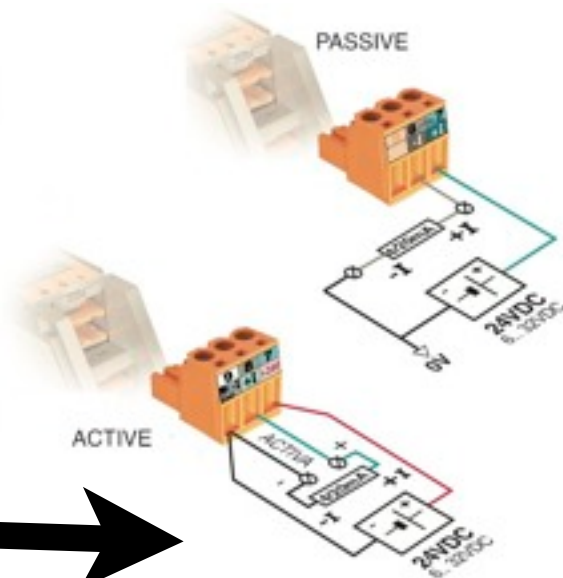
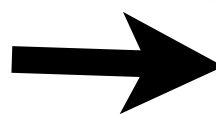


CONNECTION

Passive / Active: Automatic according to the terminals connection



OUTPUT



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TECHNICAL CHARACTERISTICS:

INPUT:

- **Thermocouple (J-K-S-R-T-E-N-B)**
 - Input Impedance: > 10 MOhm
 - Cold Joint compensation
 - Linearization according to EN60684 (ITS-90)

- **mV**
 - Input Impedance: > 10 MOhm
 - Maximum Range: -10/+70mV

Humidity non condensing	30.. 90%
Work's temperature	-40/+85°C
Storage's temperature	-50/+105°C

ENVIRONMENTAL DATA

PRECISION

Maximum transmission error	0,1% F.S.
EMI	<0,5%
Temperature coefficient	<100ppm
Overall maximum error	0,1°C

Maximum cable resistance	20Ω/per wire	
Connection method	2-3-4 wires	
Linearization	BS EN 60751 (IEC751)	
TYPES OF SENSOR	Pt 100	Ni100
Measuring range	-200/+800°C	-50/+170°C
Resistance range	18,5/378Ω	185/3780Ω
Technical connection	2, 3, 4 wires	

INPUT


Programmable time between samples	1.. 3.600seg
Capacity	4K (4.000 valores). Non-volatile memory.
Circular Buffer.	Old values are overwritten.
Wireless download registration	on Pc.
Display / print, zoom and guide lines	graphic temperature / time.

incorporated

DATA LOGGER

Self-powered	by loop
Supply voltage	6.. 32VDC
Protected against polarity reversal	

POWER SUPPLY

Low Voltage Directive (LVD). Directive 2006/95/CE
Electromagnetic compatibility. Directive 2004/108/CE
CE Emitted interference EN 61000-6-4
Immunity to interference EN 61000-6-2
 Separate collection of electrical appliances. Directive 2002/96/CE

RoHS
Compliant

STANDARDS

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TECHNICAL CHARACTERISTICS:

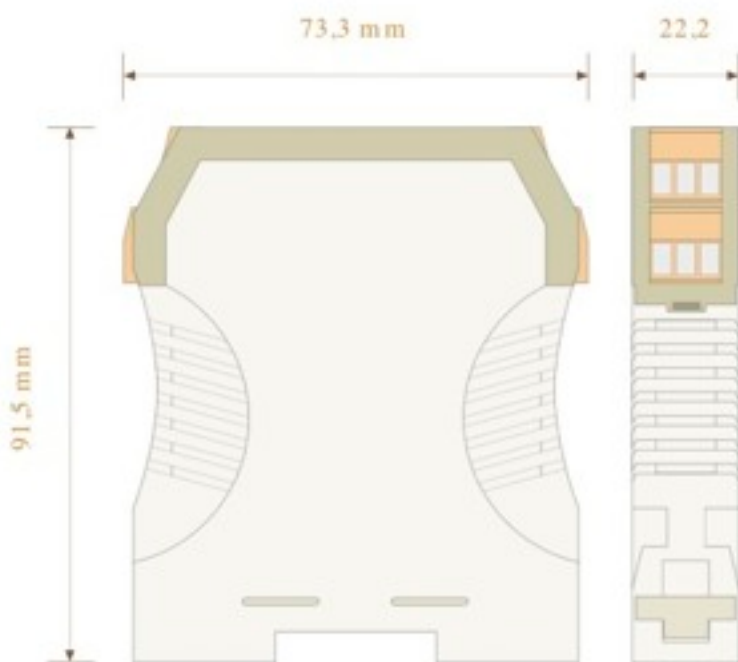
ISOLATED

Temperature-linear	4/20mA Passive	OUTPUT
or reverse	20/4mA Passive	
Output's resolution (mA)	1µA	
Rated load	900Ω@24VDC - 20mA	
	1200Ω@30VDC - 20mA	
Sensor break detection	HIGHSCALE 21,5mA	
	LOWSCALE 3,8mA	
Sensor error correction (gain and zero)	digital	
Correction factor resolution	0,1°C	
Sampling time	300mseg	
Response time 10..90%	600mseg	
Rejection's frequency	50-60Hz	
Intelligent filter	Adaptative	



Protection	IP20
Combustibility class	Vo - UL94
Ergonomic box. Fast assembly rail	EN50022
Material Polyamide	PA6.6
Connection: connectors plug-in by screw	
protection mistake of connectors	coders
pair of tightens screws(M3)	0,5Nm
Cable connections:	< 2,5mm ² , 12AWG 250V/12A

Weight: 85 grs



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WRITE MODE

RTD: PT100 NI100
 COMP RTD: 2 Wire 3 Wire 4 Wire

TC: TcK TcT -10/70 mV
 TcS TcE
 TcR TcN
 TcJ TcB

OUTPUT ERROR: 3.8 mA 21.0 mA None

TREND: Enabled Disabled
 Time shot: 10 Seconds

RANGE: From 4,000 mA / 0,0 °C To 20,000 mA / 1000 °C

CALIBRATION: Gain 1,0000 x / Offset 0,0 °C

Buttons: READING MODE (green), WRITING MODE (blue), EDITING MODE (yellow)

RF Programmer

N° TAG = 4

SN	INPUT	FROM ma/..	TO ma/..	OUTPUT ERROR	TREND	GAIN	OFFSE	STATUS
E0022C4504C628...	TcK	4,000 / 0,0	20,000 / 1000	21.0 mA	Enabled : 10 S...	1,0000	0,0	WRITE OK
E0022C4504C626...	TcK	4,000 / 0,0	20,000 / 1000	21.0 mA	Enabled : 10 S...	1,0000	0,0	WRITE OK
E0022C4504C626...	TcK	4,000 / 0	20,000 / 600,0	21.0 mA	Enabled : 10 S...	1,0000	0,0	WRITE OK
E0022C4504C626...	TcK	4,000 / 0	20,000 / 600,0	21.0 mA	Enabled : 10 S...	1,0000	0,0	WRITE OK

RESET LIST

GRÁFICO DATA LOGGER

SN: 254125 P100 9200°C

200°C
100°C
0°C

0 2000 4000

PREVISUALIZAR
 IMPRIMIR
 AUTOSCALA

restaurar vista sin zoom

desplazamiento

Clicar en un punto para señalar las líneas guía.

Arrastrar el puntero para ampliar zoom.

RF Programmer

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