C828 T/C RTD mV Head Display Transmitter (2 Wires Technology)

New

Configurable 2 Wires Transmitter for T/C - RTD & mV Input & Output Completely Configurable

C828 is a transmitter, converter of electronic signal with a microprocessor circuit, designed and built with technologies of last generation

The transmitter C828 is completely configurable, as input it can accept the most common type of Sensors as T/C (Thermocouples) and RTD (Resistance Thermometers), but also linear signal in Tension (mV) and Resistance (Ohm) .

The device is galvanically insulated and it is provided by an LCD display back-lit that can be seen also from the outside of the housing thanks to the transparent window.

The housing of the transimitter is a strong case made in light painted alloy with a shape of a connection head with a transparent window, which is proper for an industrial use both directly as connection head of complete sensors and for the field mounting with remote sensor.

Then, thanks to these characteristics, the device is really universal and easily adaptable to each operative situation.

Image of C828

HART COMMUNICATION PROTOCOL

General Technical Features :

Function: Configurable Signal Converter Transmitter
Technology: Microprocessor SMD circuit
Input: Configurable for T/C - RTD - mV - Ohm (Look at the complete Table)
T/C CJC Compensation of the Cold Joint : Automatic Configurable
Range and Accuracy: Look at the below Complete Input Table
Output: 4 ÷ 20 mA Linear (Resolution 0,3 uA)
Galvanic Insulation: U = 2000 Vac (Input/Output)
Response Time: 1 Second
Display: Back/lit LCD
Power Supply: 7,5 ÷ 45 Vdc (Suggested 24 Vdc)
Operative and Stocking Conditions: -40 ÷ 85 °C - 0 ÷ 80 UR% Not condensation
Shock & Vibrations: 4 g/2 @ 150 >Hz (IEC 60 068-26)
Electromagnetic Compatibility: According GB/T17626.2-1998 - Compliance with IEC 61000-4-3:1995
Explosion: Intrinsically safe : Exia II CT4
Housing: In Light Alloy ADC12 - Painted - Provided by a transparent window for the Display - Ip66 Installed
Max Dimension: look on the back data sheet
Weight: 800 g about
Mounting: Outdoor and on Sensors
Electric Wiring: Terminal Board

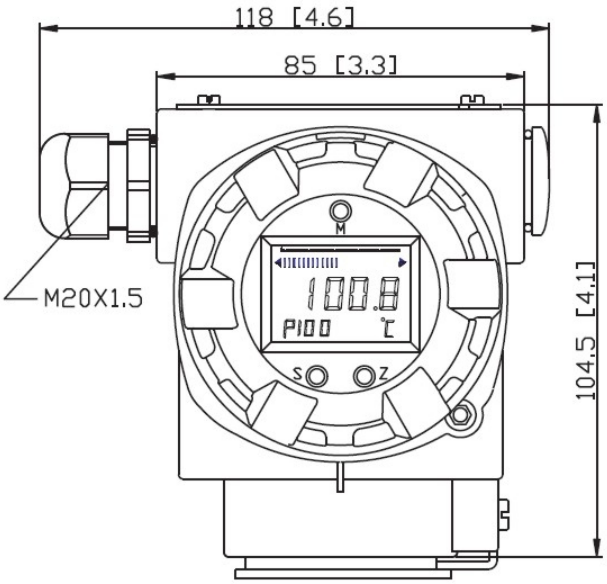
Input Type - Ranges - Precisions

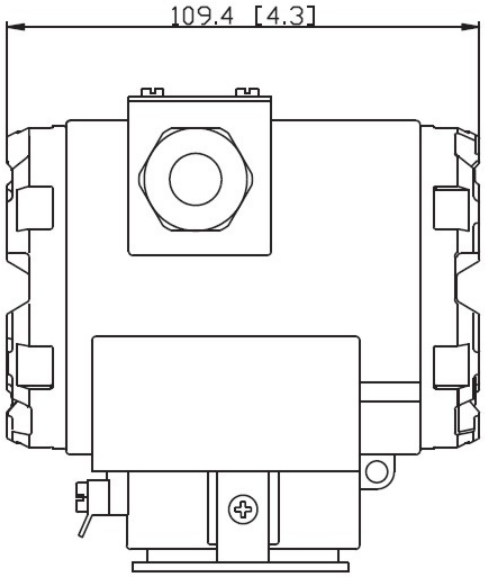
Input	Type	Range	Min.Range	Precision
RTD	Pt100	-200 ÷ 850 °C (-328 ÷ 1562 °F)	10K	0.2K or 0.08%
	Pt500 ●	-200 ÷ 250 °C (-328 ÷ 482 °F)	10K	
	Pt1000 ●	-200 ÷ 250 C (-328 ÷ 482 °F)	10K	
	Cu50	-50 ÷ 150 °C (-58 ÷ 302 °F)	10K	0.2K or 0.08%
	Cu100	-50 ÷ 150 °C (-58 ÷ 302 °F)	10K	
	Ni100	-60 ÷ 180 °C (-76 ÷ 356 °F)	10K	0.3K or 0.12%
	Ni500 ●	-60 ÷ 180 °C (-76 ÷ 356 °F)	10K	
	Ni1000 ●	-60 ÷ 150 °C (-76 ÷ 302 °F)	10K	
Resistance (Ohm)		0 ÷ 400 Ω	10 Ω	±0,1 Ω or 0.08%
		0 ÷ 2000 Ω	200 Ω	

Input	Type	Range	Min.Range	Precision
T/C	T	-270 ÷ 400 °C (-454 ÷ 752 °F)	500K	0.5K or 0.08%
	E	-270 ÷ 1000 °C (-454 ÷ 1823 °F)	50K	
	J	-210 ÷ 1200 °C (-346 ÷ 2192 °F)	50K	
	K	-270 ÷ 1372 °C (-454 ÷ 2501 °F)	50K	
	N	-270 ÷ 1300 °C (-454 ÷ 2372 °F)	50K	1.0K or 0.08%
	S	-50 ÷ 1768 °C (-58 ÷ 3214,4 °F)	500K	2.0K or 0.08%
	R	-50 ÷ 1768 °C (-58 ÷ 3214,4 °F)	500K	
	B	-0 ÷ 1820 °C (-32 ÷ 3308 °F)	500K	
Tension		-10 ÷ 75 mV	5mV	±20 µV or 0.08%
		-100 ÷ 100 mV ●	5 mV	
		-100 ÷ 500 mV ●	6 mV	
		-100 ÷ 2000 mV ●	20 mV	

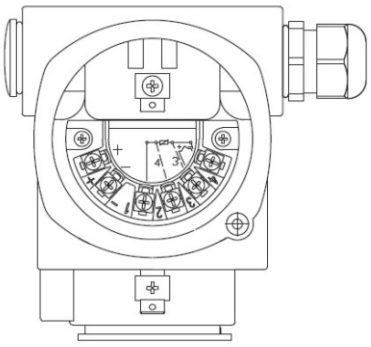
● Only On-Demand Optional Inputs

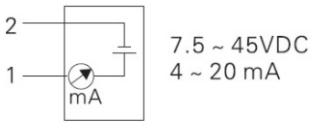
Dimension mm (in):

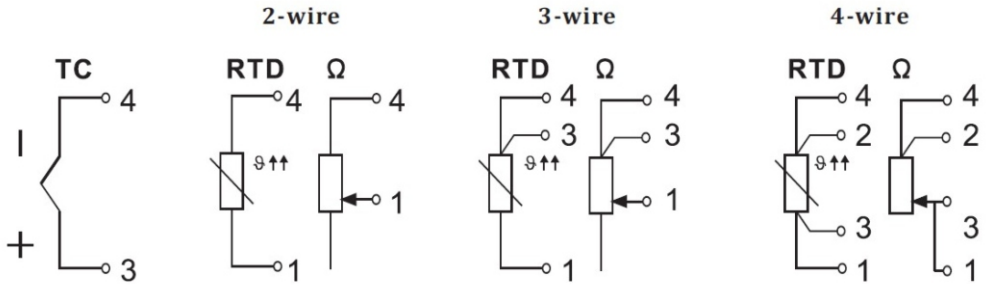




Wiring:







How To Order:

C828 - Art. 5B131 - T/C RTD mV Ohm Head Universal Transmitter With Display -IP66 - (2 Wires)

Services:

Art. 5B141 - SMART1-CAH-CFG HART - © HART Loop Configuration KIT

Optional Services:

Complete Sensor With Direct Transmitter Included
Calibration & Certification ISO or SIT Services
Private Label Customize Program for OEM (Minimum Quantity Order)

Other Suggestions:

C804-S04-M - Power Supply 85 ÷ 264 Vac 24 Vdc Din Rail - Slim Line - Art.5A960
C810-1PH - Antinoise Filter - Single Phase Ver. 10A - Art. 5596
C810-FUL-1PH - Extra Tension Protection Module - Single Phase - Art. 5861

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