

# Temperature transducer

- For PT100, PT1000 sensors, thermocouples, potentiometers
- 3 ways I/O 2.5 kV isolation
- 145 programmable input ranges via dip-switch and customizable via software FDT/DTM
- 5 programmable output ranges via dip-switch and customisable via software FDT/DTM
- Compact dimension, 6.2 mm pitch

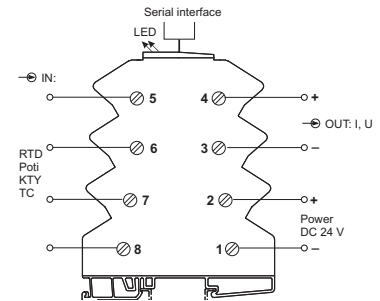
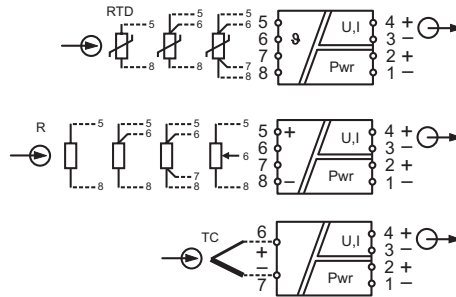


Programming tool X756894

## NOTES

- The dimensions includes the DIN clamp.
- (1) Version with spring-clamp terminals available on request
  - (2) Input temperature ranges, and output signals, can be set via dip switch, or adjustable via FDT/DTM software.
  - (3) 3-way isolation: IN / OUT/ supply

## BLOCK DIAGRAM



## VERSIONS

With screw terminals (standard)

With spring terminals

Programming tool

## INPUT TECHNICAL DATA

Input signal

Temperature range

## OUTPUT TECHNICAL DATA

Output signal

Applicable load

Display signals

Cod. X756340

Cod. X756894

LCONTADFDT

(1)

LCONZBUSB

PT100, PT1000 sensor  
potenziometer 0...600k $\Omega$   
thermocouple B, C, E, J, K, N, R, S, T type  
-200...+1400°C, according to sensor type (2)

0...10 / -10...+10 V, (max. 10.25 V)  
0...20 / 4...20 mA, (max 21 mA) (2)  
>2 k $\Omega$  with output voltage  
<650  $\Omega$  with output current  
green LED = OK, flashing red LED = error

## APPLICATIONS

CSWTPR 7-0340 is a temperature to analog signal conversion module that provides high accuracy measurement and that can be connected to a wide range of temperature sensors. The module can be used for a temperature range from -200 to + 1.400°C.

With resistive sensors it is possible to select among 2, 3, 4 wire connections. Input and output ranges can be modified with a FDT/DTM software and an USB interface.

## GENERAL TECHNICAL DATA

Supply voltage	24 Vdc (16.8...30 Vdc)
Rated current	18 mA max. @ 24 Vdc
Accuracy	10K/span(K) + 0.2% FS (for RTD) / 10K/span(K) + 0.4% FS (for TE)
Data processing	24 bit
Linearity error	$\pm 0.05\%$ FS - $\pm 0.1\%$ FS (for TE)
Temperature coefficient	<100 ppm/°C
Response time	5...500 ms (regolabile, default 30 ms)
Isolation	2.5 kVac / 60 s (3)
ECM standards	EN 61000-6-2, EN 61000-6-4
Reference Standard	IEC 664-1, DIN VDE
Overtoltage category / Pollution degree	III / 2
Protection degree	IP 20 IEC 529 EN60529
Operating temperature	-40...+70°C
Connection terminal	1.5 mm <sup>2</sup> fixed screw ty'e
Housing material	PPE
Approx. weight	40 g (1.41 oz)
Mounting information	vertical on rail adjacent without gap

## MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32	—
Plug-in jumper	red CWBK 7-0802 cod. X766802 white CWBK 7-0803 cod. X766803 blue CWBK 7-0804 cod. X766804

Range*	S1			S2						
Start	7	8	12	End	3	4	5	6	7	8
-200°C	●	●	●	0°C	●	●	●	●	●	●
-150°C	●	●	●	50°C	●	●	●	●	●	●
-100°C	●	●	●	100°C	●	●	●	●	●	●
-50°C	●	●	●	150°C	●	●	●	●	●	●
0°C	●	●	●	200°C	●	●	●	●	●	●
				250°C	●	●	●	●	●	●
				300°C	●	●	●	●	●	●
				350°C	●	●	●	●	●	●
				400°C	●	●	●	●	●	●
				450°C	●	●	●	●	●	●
				500°C	●	●	●	●	●	●
				550°C	●	●	●	●	●	●
				600°C	●	●	●	●	●	●
				650°C	●	●	●	●	●	●
				700°C	●	●	●	●	●	●
				750°C	●	●	●	●	●	●
				800°C	●	●	●	●	●	●
				850°C	●	●	●	●	●	●
				900°C	●	●	●	●	●	●
				950°C	●	●	●	●	●	●
				1000°C	●	●	●	●	●	●
				1050°C	●	●	●	●	●	●
				1100°C	●	●	●	●	●	●
				1150°C	●	●	●	●	●	●
				1200°C	●	●	●	●	●	●
				1250°C	●	●	●	●	●	●
				1300°C	●	●	●	●	●	●
				1350°C	●	●	●	●	●	●
				1400°C	●	●	●	●	●	●

● → Switch On

S1-S2 1-8 off:  
FDT/DTM