

Программируемый преобразователь для датчика температуры серии LCON



Programmable converters for temperature sensors

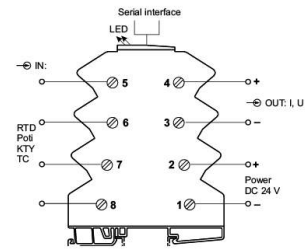
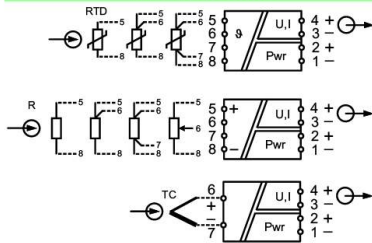
- For PT100, PT1000 sensors, thermocouples, potentiometers
- 3 ways I/O 2.5 KV isolation
- 145 programmable input ranges via dip-switch and customizable via software FDT/DTM
- 5 programmable output ranges via dip-switch and customisable via software FDT/DTM
- Compact dimension, 6.2 mm pitch



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

Cod. X756340 Cod. X756894

LCONTADFDT

(1)

LCONZBUSB

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

OUTPUT TECHNICAL DATA

Output signal
Applicable load
Display signals

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

GENERAL TECHNICAL DATA

Supply voltage
Rated current
Accuracy
Data processing
Linearity error
Temperature coefficient
Response time
Isolation
ECM standards
Reference Standard
Overvoltage category / Pollution degree
Protection degree
Operating temperature
Connection terminal
Housing material
Approx. weight
Mounting information

24 Vdc (16.8...30 Vdc)
18 mA max. @ 24 Vdc
10K/span(K) + 0.2% FS (for RTD) / 10K/span(K) + 0.4% FS (for TE)
24 bit
±0.05% FS - ±0.1% FS (for TE)
<100 ppm/°C
5...500 ms (regolabile, default 30 ms)
2.5 KVac / 60 s (3)
EN 61000-6-2, EN 61000-6-4
IEC 664-1, DIN VDE
III / 2
IP 20 IEC 529 EN60529
-40...+70°C
1.5 mm² fixed screw ty^e
PPE
40 g (1.41 oz)
vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5
Mounting rail type according to IEC60715/G32
Plug-in jumper

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
—
CWBK 7-0802 cod. X766802
CWBK 7-0803 cod. X766803
CWBK 7-0804 cod. X766804

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.

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	●	●	●	●	●	●
Sensor*	S1	1	2	3	250°C	●	●	●	●	●	●
					300°C	●	●	●	●	●	●
PT100	●	●	●	●	350°C	●	●	●	●	●	●
PT1000	●	●	●	●	400°C	●	●	●	●	●	●
TE J	●	●	●	●	450°C	●	●	●	●	●	●
TE K	●	●	●	●	500°C	●	●	●	●	●	●
R	●	●	●	●	550°C	●	●	●	●	●	●
Output*	S1	4	5	6	600°C	●	●	●	●	●	●
					650°C	●	●	●	●	●	●
0-20mA	●	●	●	●	700°C	●	●	●	●	●	●
4-20mA	●	●	●	●	750°C	●	●	●	●	●	●
0-10V	●	●	●	●	800°C	●	●	●	●	●	●
±10V	●	●	●	●	850°C	●	●	●	●	●	●
S1-S2 1-8 off: FDT/DTM	900°C	●	●	●	●	●	●	●	●	●	●
	950°C	●	●	●	●	●	●	●	●	●	●
	1000°C	●	●	●	●	●	●	●	●	●	●
	1050°C	●	●	●	●	●	●	●	●	●	●
	1100°C	●	●	●	●	●	●	●	●	●	●
	1150°C	●	●	●	●	●	●	●	●	●	●
	1200°C	●	●	●	●	●	●	●	●	●	●
	1250°C	●	●	●	●	●	●	●	●	●	●
	1300°C	●	●	●	●	●	●	●	●	●	●
	1350°C	●	●	●	●	●	●	●	●	●	●
1400°C	●	●	●	●	●	●	●	●	●	●	

● → Switch On



Programmable converter temperature sensor / threshold

- 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*
- 2 threshold customizable via software FDT/DTM
- Compact dimension, 6.2 mm pitch

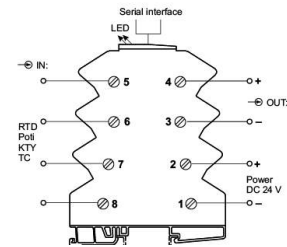
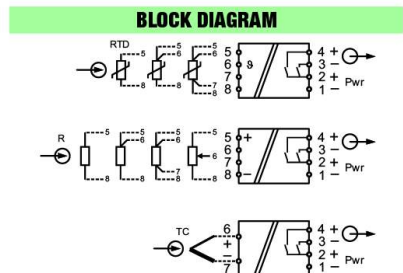


NEW



NOTES

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



VERSIONS	Cod. X756370	Cod. X756894
With screw terminals (standard)	LCNTLSFDT	
With spring terminals	(1)	
Programming tool	LCONZBUSB	
INPUT TECHNICAL DATA		
Input signal	PT100, PT1000 sensor potenziometer 0...600kΩ thermocouple B, C, E, J, K, N, R, S, T type -200...+1400°C, according to sensor type (2)	
Temperature range		
OUTPUT TECHNICAL DATA		
Threshold regulation	programmable via software FDT/DTM	
Contact type	2 NO contact (solid state relay)	
Max. switching voltage / current	30 Vdc / 100 mA	
Status indication	2 yellow LED	
Operating mode	limit value, window, tendency, inverting and hold function	
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	±0.05% FS (for RTD and potentiometer) / ±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	
Overvoltage category / Pollution degree	III / 2	
Protection degree	IP 20 IEC 529 EN60529	
Operating temperature	-40...+70°C	
Connection terminal	1.5 mm ² fixed screw type	
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

APPLICATIONS

CWTPR 7-0370 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 range and the output thresholds can be modified with a FDT/DTM software and an USB interface. Two normally open contact with solid state relay are available.