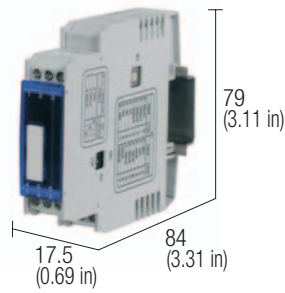


Programmable converters for RTD sensors

- Converters for PT100 sensors
- 3 ways galvanic isolation
- 8 programmable input range
- 3 programmable output range
- Simple programming
- Version with 24-240 Vac/dc supply voltage

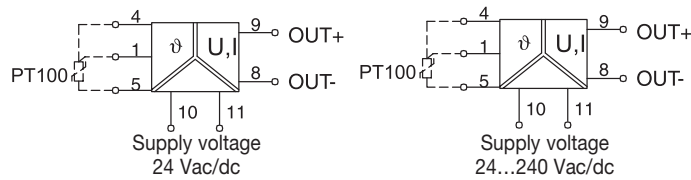


NOTES

The dimensions include the DIN clamp.

- (1) Adjustable via rotary-switch
- (2) Adjustable via dip-switch
- (3) They can also be used with 2 wire PT100 sensor, connecting the terminals 1 and 4
- (4) range 16.8...30 Vdc / 19.2...28.8 Vac
- (5) range 16.8...264 Vdc / 19.2...264 Vac
- (6) 3-way isolation: IN/OUT/power supply

BLOCK DIAGRAM



VERSIONS

- 24 Vac/dc supply voltage
- 24-240 Vac/dc supply voltage

INPUT TECHNICAL DATA

Input signal
Temperature range (1)

Supply current

OUTPUT TECHNICAL DATA

Output signal (2)

Applicable load

GENERAL TECHNICAL DATA

Supply voltage
Rated current
Accuracy
Transmission frequency
Temperature coefficient
Isolation
ECM standards
Reference Standard
Overvoltage category/Pollution degree
Protection degree
Operating temperature range
Connection terminal
Housing material
Approx. weight
Mounting information

Cat. No. X756816

CWPT 6-0816

PT100 3 wires (3)
-50...+50°C (-58...+122°F)
-50...+100°C (-58...+212°F)
-50...+150°C (-58...+302°F)
0...+100°C (+32...+212°F)
0...+150°C (+32...+302°F)
0...+200°C (+32...+392°F)
0...+300°C (+32...+572°F)
0...+400°C (+32...+752°F)

0.5 mA

0...10 V

0...20 / 4...20 mA
>1 K Ω with output voltage,
<400 Ω with output current

24 Vac/dc (2)

≤ 35 mA $\pm 10\%$ @ 24 Vdc

<0.3% FS

<30 Hz

0.015% / K FS

1.5 kVac / 60 s (6)

EN 50081-2, EN 50082-2

IEC 664-1, DIN VDE

III / 2

IP20

-20...+60°C

2.5 mm² fixed screw type

Noryl UL94V-0

75 g (2.65 oz)

vertical on rail adjacent without gap

Cat. No. X756817

CWPT 6-0817

PT100 3 wires (3)
-50...+50°C (-58...+122°F)
-50...+100°C (-58...+212°F)
-50...+150°C (-58...+302°F)
0...+100°C (+32...+212°F)
0...+150°C (+32...+302°F)
0...+200°C (+32...+392°F)
0...+300°C (+32...+572°F)
0...+400°C (+32...+752°F)

0.5 mA

0...10 V

0...20 / 4...20 mA
>1 K Ω with output voltage,
<400 Ω with output current

24-240 Vac/dc (3)

≤ 35 mA $\pm 10\%$ @ 24 Vdc

<0.3% FS

<30 Hz

0.015% / K FS

4 kVac / 60 s (6)

EN 50081-2, EN 50082-2

IEC 664-1, DIN VDE

III / 2

IP20

-20...+60°C

2.5 mm² fixed screw type

Noryl UL94V-0

85 g (3.00 oz)

vertical on rail adjacent without gap

APPLICATIONS

The modules convert and isolate signals generated by 3 wire / 2 wire PT100 (RTD) sensors into analog signals; the module can be set into 8 temperature ranges and for up to 3 most important analog ranges.

Set up is easily achieved by setting a dip-switch on one side of the module.

The modules provide input and output isolation, assuring high signal accuracy, and can be used with isolated and not isolated sensors. Two wire sensors can be used by connecting a jumper wire between 1 and 4 terminal blocks.

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5

Mounting rail type according to IEC60715/G32

Plug-in jumper

(16 poles, 16 A)

red

white

blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

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