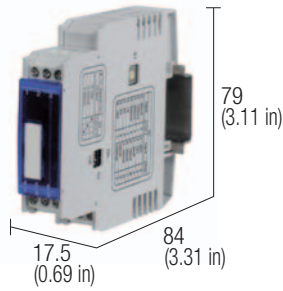


# Temperature transducer

- 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

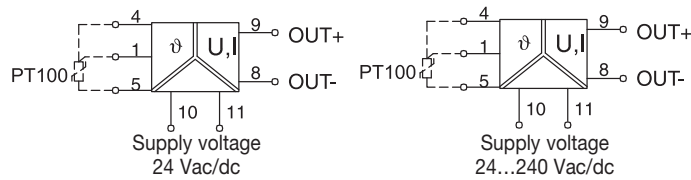


## NOTES

The dimensions includes 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 kΩ with output voltage,  
<400 Ω with output current

24 Vac/dc (2)

≤ 35 mA ± 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 mm<sup>2</sup> 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 kΩ with output voltage,  
<400 Ω with output current

24-240 Vac/dc (3)

≤ 35 mA ± 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 mm<sup>2</sup> 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 analogue signals; the module can be set into 8 temperature ranges and for up to 3 most important analogue 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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