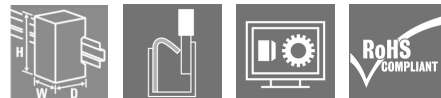


**MCZ SERIES**  
**MCZ PT100/3 CLP 0...300C**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Product image, Similar to illustration****MCZ: The smallest solution**

- The smallest analogue signal converter in terminal block format on the market
- Space-saving conversion of analogue signals in the control cabinet thanks to the slim, 6 mm wide module width
- Simple wiring with plug-in cross-connectors

**General ordering data**

|            |                                   |
|------------|-----------------------------------|
| Type       | MCZ PT100/3 CLP 0...300C          |
| Order No.  | <a href="#">8473020000</a>        |
| Version    | MCZ SERIES, Temperature converter |
| GTIN (EAN) | 4032248058297                     |
| Qty.       | 10 pc(s).                         |

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Length     | 91 mm   | Length (inches) | 3.583 inch |
| Width      | 6 mm    | Width (inches)  | 0.236 inch |
| Depth      | 63.2 mm | Depth (inches)  | 2.488 inch |
| Net weight | 29.7 g  |                 |            |

### Temperatures

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 50 °C          | Operating temperature, min. | -25 °C         |
| Storage temperature, max.   | 85 °C          | Storage temperature, min.   | -25 °C         |
| Operating temperature       | -25 °C...50 °C | Storage temperature         | -25 °C...85 °C |

### Probability of failure

|      |             |
|------|-------------|
| MTTF | 1,066 Years |
|------|-------------|

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E141197 |
|-------------------------|---------|

### Input

|                  |                      |                         |                                              |
|------------------|----------------------|-------------------------|----------------------------------------------|
| Number of inputs | 1                    | Sensor                  | PT100/2-/3-wire (in compliance with IEC 751) |
| Sensor supply    | 0.8 mA / 9...30 V DC | Temperature input range | 0...300 °C                                   |

### Output

|                        |         |                |                                        |
|------------------------|---------|----------------|----------------------------------------|
| Number of outputs      | 1       | Output current | 4...20 mA (current loop) at 9...30V DC |
| load impedance current | ≤ 600 Ω |                |                                        |

### General data

|                    |                                                         |                         |                                 |
|--------------------|---------------------------------------------------------|-------------------------|---------------------------------|
| Accuracy           | Typ.: 0.2 %, máx. 0.5 % v. FSR                          | Configuration           | none                            |
| Galvanic isolation | between input/output                                    | Input/Output            | PT100/ 4...20 mA (current loop) |
| Linearity          | Yes                                                     | Rail                    | TS 35                           |
| Step response time | 10 ms                                                   | Temperature coefficient | max. ± 250 ppm/K                |
| Voltage supply     | Output loop powered, max. 30 V/ min. 9 V + (20 mA x RL) |                         |                                 |

### Insulation coordination

|                        |            |                    |                      |
|------------------------|------------|--------------------|----------------------|
| EMC standards          | EN 61000-6 | Galvanic isolation | between input/output |
| Pollution severity     | 2          | Rated voltage      | 50 V                 |
| Surge voltage category | I          |                    |                      |

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## Technical data

### Connection data

|                                                                                         |                          |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------|---------------------|
| Type of connection                                                                      | Tension-clamp connection | Clamping range, rated connection                                                        | 1.5 mm <sup>2</sup> |
| Clamping range, min.                                                                    | 0.5 mm <sup>2</sup>      | Clamping range, max.                                                                    | 1.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                                                 | AWG 26                   | Wire connection cross section AWG, max.                                                 | AWG 16              |
| Wire cross-section, solid, min.                                                         | 0.5 mm <sup>2</sup>      | Wire cross-section, solid, max.                                                         | 1.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded, min.                                    | 0.5 mm <sup>2</sup>      | Wire connection cross section, finely stranded, max.                                    | 1.5 mm <sup>2</sup> |
| Wire cross-section, finely stranded, min. (AWG)                                         | AWG 26                   | Wire cross-section, finely stranded, max. (AWG)                                         | AWG 16              |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>      | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.5 mm <sup>2</sup>      | Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001774    | ETIM 4.0   | EC001774    |
| ETIM 5.0   | EC001774    | ETIM 6.0   | EC002919    |
| UNSPSC     | 30-21-18-01 | eClass 5.1 | 27-20-02-06 |
| eClass 6.2 | 27-20-02-06 | eClass 7.1 | 27-20-02-06 |
| eClass 8.1 | 27-20-02-06 | eClass 9.0 | 27-21-01-29 |
| eClass 9.1 | 27-21-01-29 |            |             |

### Approvals

Approvals



ROHS

Conform

### Downloads

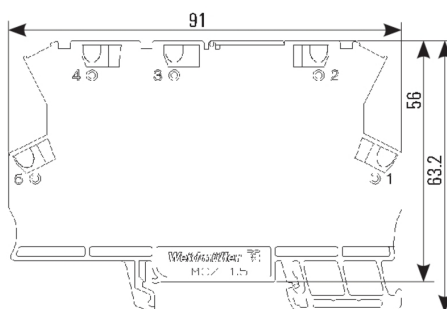
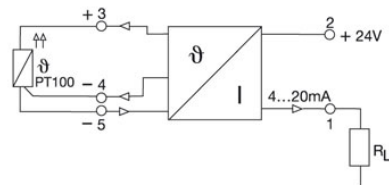
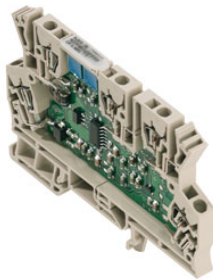
|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a> |
| Brochure/Catalogue                          | <a href="#">CAT 4.1 ELECTR 16/17 EN</a>   |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>              |
| Engineering Data                            | <a href="#">STEP</a>                      |
| User Documentation                          | <a href="#">Instruction sheet</a>         |

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# Drawings

## Connection diagram



dimensions