

**W-Series**  
**WDU 2.5/TC TYP T****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

**Current and voltage transformer wiring**

Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

**General ordering data**

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| Type       | WDU 2.5/TC TYP T                                                                              |
| Order No.  | <a href="#">1024200000</a>                                                                    |
| Version    | W-Series, Feed-through terminal, Thermocouple, Rated cross-section: 2.5 mm², Screw connection |
| GTIN (EAN) | 4008190026400                                                                                 |
| Qty.       | 50 pc(s).                                                                                     |

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**Technical data**
**Dimensions and weights**

|                          |         |                 |            |
|--------------------------|---------|-----------------|------------|
| Width                    | 10.2 mm | Width (inches)  | 0.402 inch |
| Height                   | 60 mm   | Height (inches) | 2.362 inch |
| Depth                    | 50 mm   | Depth (inches)  | 1.969 inch |
| Depth including DIN rail | 50.5 mm | Weight          | 16.95 g    |
| Net weight               | 16.86 g |                 |            |

**Temperatures**

|                                  |        |                                  |        |
|----------------------------------|--------|----------------------------------|--------|
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |
|----------------------------------|--------|----------------------------------|--------|

**Material data**

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | Dark Beige |
| UL 94 flammability rating | V-0   |        |            |

**Rating data IECEx/ATEX**

|                                |                                                                                                   |                                 |                     |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Certificate No. (ATEX)         | DEMKO14ATEX1338U                                                                                  | Certificate No. (IECEX)         | IECEXULD14.0005U    |
| Max. voltage (ATEX)            | 55 V                                                                                              | Current (ATEX)                  | 8 A                 |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>                                                                               | Max. voltage (IECEX)            | 55 V                |
| Current (IECEX)                | 8 A                                                                                               | Wire cross section max. (IECEX) | 2.5 mm <sup>2</sup> |
| Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7              |                     |
| Ex 2014/34/EU label            | II 2 G D                                                                                          |                                 | Ex e II             |

**System specifications**

|                               |                                |                                                          |              |
|-------------------------------|--------------------------------|----------------------------------------------------------|--------------|
| Version                       | Screw connection, Thermocouple | Tightening torque (clamping screw for copper conductors) | 0.4...0.6 Nm |
| End cover plate required      | Yes                            | Number of potentials                                     | 1            |
| Number of levels              | 1                              | No. of clamping points per level                         | 2            |
| Number of potentials per tier | 1                              | Levels cross-connected internally                        | No           |
| PE connection                 | No                             | Mounting rail                                            | TS 35        |
| N-function                    | No                             | PE function                                              | No           |
| PEN function                  | No                             |                                                          |              |

**Additional technical data**

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | No    | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

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**Technical data**
**Conductors for clamping (rated connection)**

|                                                                                                                               |                      |                                                                                                                                       |                     |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Blade size                                                                                                                    | 0.6 x 3.5 mm         | Clamping range, rated connection, max.                                                                                                | 2.5 mm <sup>2</sup> |
| Clamping range, rated connection, min.                                                                                        | 0.13 mm <sup>2</sup> | Clamping screw                                                                                                                        | M 2.5               |
| Connection direction                                                                                                          |                      | Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm <sup>2</sup> |
|                                                                                                                               | on side              | Number of connections                                                                                                                 | 2                   |
| Gauge to IEC 60947-1                                                                                                          | A2                   | Tightening torque, max.                                                                                                               | 0.6 Nm              |
| Stripping length                                                                                                              | 10 mm                | Torque level with DMS electric screwdriver                                                                                            | 1                   |
| Tightening torque, min.                                                                                                       | 0.4 Nm               | Twin wire-end ferrules, min.                                                                                                          | 0.5 mm <sup>2</sup> |
| Twin wire-end ferrules, max.                                                                                                  | 1.5 mm <sup>2</sup>  | Wire connection cross section AWG, max.                                                                                               | AWG 12              |
| Type of connection                                                                                                            | Screw connection     | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                             | 2.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                                                                                       | AWG 26               | Wire connection cross section, finely stranded, max.                                                                                  | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                     | 0.5 mm <sup>2</sup>  | Wire connection cross section, solid core, min. rated connection                                                                      | 0.5 mm <sup>2</sup> |
| Wire connection cross section, solid core max. rated connection                                                               | 2.5 mm <sup>2</sup>  | Wire connection cross section, stranded, rated connection, min.                                                                       | 1.5 mm <sup>2</sup> |
| Wire connection cross section, stranded, rated connection, max.                                                               | 2.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded, min.                                                                                  | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 2.5 mm <sup>2</sup>  |                                                                                                                                       |                     |

**Dimensions**

|              |       |
|--------------|-------|
| TS 35 offset | 66 mm |
|--------------|-------|

**Rating data**

|                                              |                     |                    |                          |
|----------------------------------------------|---------------------|--------------------|--------------------------|
| Rated cross-section                          | 2.5 mm <sup>2</sup> | Standards          | IEC 60584, IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ             | Pollution severity | 3                        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000904    | ETIM 4.0   | EC000904    |
| ETIM 5.0   | EC000904    | ETIM 6.0   | EC000904    |
| UNSPSC     | 30-21-18-11 | eClass 5.1 | 27-14-11-31 |
| eClass 6.2 | 27-14-11-90 | eClass 7.1 | 27-14-11-90 |
| eClass 8.1 | 27-14-11-42 | eClass 9.0 | 27-14-11-42 |
| eClass 9.1 | 27-14-11-42 |            |             |

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# Technical data

## Approvals

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

## Downloads

|                                             |                                                                                                                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CFAT_WDU 2.5_1.5_TC.pdf</a><br><a href="#">IECEXULD14.0005U_e.pdf</a><br><a href="#">DE_PT1005_20160418_786_ISSUE01.pdf</a><br><a href="#">ACF-ATEX_4786180920</a> |
| Brochure/Catalogue                          | <a href="#">CAT 1 TERM 16/17 EN</a>                                                                                                                                            |
| Engineering Data                            | <a href="#">EPLAN_WSCAD</a>                                                                                                                                                    |

## Safety note

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|