

## Terminals for temperature measuring circuits

### Thermocouple terminals

WDU 2.5/TC

2.5 mm<sup>2</sup>



In hazardous area applications, the installation instructions and the rated data specifications for accessories given in the technical appendix must be followed.

Width/Length/height with TS35x7.5	mm
max. current / max. cond. cross-section	A/mm <sup>2</sup>
Max. clamping range	mm <sup>2</sup>

### Technical data

#### Rated data

Rated voltage	V
Rated current	A
Rated cross-section	mm <sup>2</sup>
Rated impulse voltage / Pollution severity	kV/-
Gauge to IEC 60947-1 / UL94 Flammability class	
Approvals	

#### Clamped conductors (H05V/H07V)

solid / stranded	mm <sup>2</sup>
flexible / Stranded wire with end ferrules	mm <sup>2</sup>
Tightening torque range (clamping screw)	
Stripping length / Blade size	mm/-
<b>2 conductors with same cross-section (H05V/H07V)</b>	
solid / stranded	mm <sup>2</sup>
flexible / Stranded wire with end ferrules	mm <sup>2</sup>

#### Note

10.2 x 60 x 50.5			
<b>/ 2.5</b>			
<b>0.13...2.5</b>			
IEC 60947-7-1 / IEC 60584	Ex e II II 2 G D		
<b>IEC</b>	<b>UL</b>	<b>CSA</b>	<b>EN 60079-7</b>
55			
1			
2.5		2.5	
/ 3			
A2 / V-0			
SIRA 02ATEX3153 U			

#### Rated connection

0.5...2.5 / 1.5...2.5
0.5...2.5 / 0.5...2.5
0.4...0.6 Nm (M 2.5)
10 / 0.6 x 3.5 mm
0.5...1.5
0.5...1.5 / 0.5...1.5

#### Note

### Ordering data

#### Version

(NiCr - Ni) type K
(Cu - CuNi) type T
(Fe-CuNi) type J
(Pt 10% - Pt Rh/Pt 13% - Pt Rh) type SR
(Pt 10% Rh - Pt 6% Rh) type B
(NiCr - CuNi) type E
(NiSiI - Nicrosil) type N

#### Note

### Accessories

#### End plate / partition

Dark beige Wemid
Dark beige Wemid

#### End bracket

Dark beige Wemid
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Type	Qty	Order No.
WDU 2.5/TC TYP K	50	1024100000
WDU 2.5/TC TYP T	50	1024200000
WDU 2.5/TC TYP J	50	1024300000
WDU 2.5/TC TYP SR	50	1024400000
WDU 2.5/TC TYP B	50	1033700000
WDU 2.5/TC TYP E	50	1033300000
WDU 2.5/TC TYP N	50	1041500000

#### Marking systems

(see assortment in catalogue 7)

Marking tags

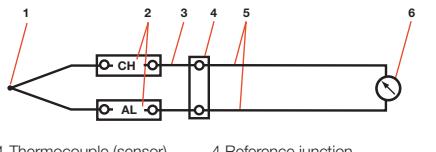
DEK 5/5 / WS 12/5

For detailed information on other accessories and applications, refer to the „Accessories“ section

Weidmüller thermocouple terminals are specially designed for the transmission of very small voltages in temperature measuring circuits. Special current bars ensure that no false signals are transmitted within the terminal when temperature differences between the positive and negative paths exist. This high measuring precision is required, for example, in aircraft engine test rigs, complicated chemical processes, controllers, etc.

- Material of current bar corresponds to thermal and compensating conductors
- Clear thermocouple marking
- 2-pole blocks per thermocouple
- Modular width 10 mm

### Configuration of a temperature measuring circuit



The thermocouple terminals shown in this measuring circuit are used for the thermoelectrical transmission of the thermoelectric voltage from the thermocouple to the reference junction and the indicator unit via the compensating conductor. Thermocouple terminals are required for constructing a temperature measuring circuit.

#### Technical data

Thermocouples to IEC 584 (DIN 43 710)

Current bar

	Cromel-Alumel
	E-grade copper (ETP) / Constantan
	Iron Constantan
	E-copper/ A-grade copper
	S-grade copper (OFC) / E-copper
	Cromel-Constantan