

# (1) TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in  
Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) Type-Examination Certificate Number

**TÜV 20 ATEX 8502 U**

Issue: 01

- (4) Equipment: **Terminal Block Series WFS/W2C/W2T and ZDTR/WDTR**
- (5) Manufacturer: **Weidmüller Interface GmbH & Co. KG**
- (6) Address: **Klingenbergstr. 26  
32758 Detmold, Germany**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex8502.01/20

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN IEC 60079-0: 2018**

**EN IEC 60079-7: 2015 / A1: 2018**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**II 3 G Ex ec IIC Gc**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-05-11

Dipl.-Ing. Christian Mehnhoff



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This Type Examination Certificate may be copied only without alteration. Extracts or alterations are subject to approval by the  
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
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(13)

Annex

(14)

## Type Examination Certificate

### TÜV 20 ATEX 8502 X

Issue: 01

(15)

#### Description of equipment

##### 15.1 Equipment and type:

Terminal Block Series WFS/W2C/W2T and ZDTR

##### 15.2 Description / Details of Change

##### General product information:

The terminal block series WFS/W2C/W2T and ZDTR is for the connection of copper conductors in enclosures. The type of protection is increased safety, "e" - Level of Protection "ec" (EPL "Gc").

##### The certificate covers the types

WFS 4*	W2C 4 DT*	W2C 4 FS * STB
WFS 4 10-36V*	W2C 4 DT-PE*	W2C 4 FS 10-36V * STB
WFS 4 30-70V*	W2T 4 DT-FT*	W2C 4 FS 30-70V * STB
WFS 4 60-150V*	W2T 4 DT-FT-PE*	W2C 4 FS 60-150V * STB
WFS 4 100-250V*	W2C 4 DT * STB	W2C 4 FS 100-250V * STB
WFS 4 BL*	W2C 4 DT-PE * STB	W2C 4 FS-PE * STB
WFS 4 10-36V BL*	W2T 4 DT-FT * STB	W2C 4 FS-PE 10-36V * STB
WFS 4 30-70V BL*	W2T 4 DT-FT-PE * STB	W2C 4 FS-PE 30-70V * STB
WFS 4 60-150V BL*	W2C 4 FS*	W2C 4 FS-PE 60-150V * STB
WFS 4 100-250V BL*	W2C 4 FS 10-36V*	W2C 4 FS-PE 100-250V * STB
WFS 4 DB*	W2C 4 FS 30-70V*	W2T 4 FS-FT * STB
WFS 4 10-36V DB*	W2C 4 FS 60-150V*	W2T 4 FS-FT 10-36V * STB
WFS 4 30-70V DB*	W2C 4 FS 100-250V*	W2T 4 FS-FT 30-70V * STB
WFS 4 60-150V DB*	W2C 4 FS-PE*	W2T 4 FS-FT 60-150V * STB
	W2C 4 FS-PE 10-36V*	W2T 4 FS-FT 100-250V * STB
	W2C 4 FS-PE 30-70V*	W2T 4 FS-FT-PE * STB
	W2C 4 FS-PE 60-150V*	W2T 4 FS-FT-PE 10-36V * STB
	W2C 4 FS-PE 100-250V*	W2T 4 FS-FT-PE 30-70V * STB
	W2T 4 FS-FT*	W2T 4 FS-FT-PE 60-150V * STB
	W2T 4 FS-FT 10-36V*	W2T 4 FS-FT-PE 100-250V * STB
	W2T 4 FS-FT 30-70V*	
	W2T 4 FS-FT 60-150V*	
	W2T 4 FS-FT 100-250V*	
	W2T 4 FS-FT-PE*	
	W2T 4 FS-FT-PE 10-36V*	
	W2T 4 FS-FT-PE 30-70V*	
	W2T 4 FS-FT-PE 60-150V*	
	W2T 4 FS-FT-PE 100-250V*	
ZDTR 2.5*		
ZDTR 2.5 BL*		

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**Optional accessories:**

End plate	WEP 2C 4*, WEP 2T 4*, WAP 2.5-10 SW*, AP ZDTR2.5*
End bracket	WEW 35/2 SW*, ZEW 35*
Terminal rail	TS 35/...acc. to DIN EN 60715
Cross connection	ZQV 4N/ <sup>(1)</sup> *, ZQV 2.5N/ <sup>(1)</sup> GE,

<sup>(1)</sup>: number of contacts

\*: in all colours (not Ex relevant).

**Technical Data**

Operating temperature:	-60°C....+120°C (WFS)
	-60°C....+100°C (ZDTR)
	-60°C....+130°C (W2C and W2T)

For other technical data refer to the "Installation instructions & condition of safe use" for each type of terminal.

**Detail of Change:**

W2C and W2T terminals were added

(16) Test-Report No. 557/Ex8502.01/20

(17) Special Conditions for safe use

1. The terminal blocks shall be placed inside a suitable IECEx/ATEX certified IP54 enclosure for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable IECEx/ATEX certified 't' enclosure (IEC/EN 60079-31).
2. In combination with other terminal block series and sizes and if other accessories are used, the applicable creepage and clearance distances shall be met.
3. The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks.
4. Regarding the use of accessories the instruction of the manufacturer must be followed.
5. For cross connection accessories the current ratings and the resistances across the terminals have to be considered. Please refer to the "types & electrical rating" of the "Notice to Installers".
6. Fuse holders shall be fully closed all times. Do not remove or replace the fuse when energized.
7. If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.

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8. A thermal assessment for the classification into the temperature classes T6.....T1 shall be performed. For the maximum ambient temperature range, refer to the information in the NTI.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-05-11

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