

WDS2 RS232/RS485/422**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

The constantly increasing demand for automation technology means that ever larger amounts of data have to be processed.

A highly diverse range of interface converters in serial and digital form are used in such instances.

They are primarily used to adapt different data protocols and for converting analogue signals into digital ones or vice versa.

General ordering data

Version	Interface converter, RS232, RS485, RS422
Order No.	8615700000
Type	WDS2 RS232/RS485/422
GTIN (EAN)	4032248277698
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2023-12-30
Alternative product	3027140000

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Technical data

Dimensions and weights

Height	112.4 mm	Height (inches)	4.425 inch
Width	22.5 mm	Width (inches)	0.886 inch
Length	92.4 mm	Length (inches)	3.638 inch
Net weight	151 g		

Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	0 °C...55 °C
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Probability of failure

SIL in compliance with IEC 61508	None	MTTF	277 a
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Communication

Communication	Bi-directional	Interface	1 x serial RS-232/RS-485/ RS-422
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Input

Type	RS232, RS485/422
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Interface 1

Assignment	DTE/DCE switchable with DIP switch	Connection type	SUB-D9 (male plug)
Type	RS232, RS485/422		

Interface 2

Bit delay	≤ 3 µs	Bit distortion	< 5 %
Control of data direction	Automatic or via RS232 RTS/CTS	Shield connection	KLBÜ 4-6/Z1
Status indicator	LED green: supply voltage, TxD, RxD	Terminating resistors	Pull-down/pull-up via DIP switch
Transmission channels	Half-duplex (RS485 2-wire) Full-duplex (RS485 4-wire and RS422)	Transmission distance	Max. 1200 m twisted pair
Transmission rate	2.4, 4.8, 9.6, 19.2, 57.6, 115.2 kBaud, 8 bit or 8 bit + parity bit		

Output (digital)

Status indicator	LED green: supply voltage, TxD, RxD
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General data

Configuration	DIP switch	Galvanic isolation	3-way isolator
Power consumption	ca. 1.5 W	Protection degree	IP20
Rail	TS 35	Voltage supply	24 V DC ± 20 %

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Insulation coordination

EMC standards	EN 55011, EN 61000-6-2, EN 61000-6-4	Galvanic isolation	3-way isolator
Impulse withstand voltage	4 kV	Insulation voltage	2 kV DC / 1 min.
Insulation voltage input or output/supply	2 kV DC / 1 min.	Pollution severity	2
Rated voltage	between adjacent electric circuits: 300 V between electric circuits and PE: 150 V	Surge voltage category	III

Connection data

Type of connection	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Classifications

ETIM 6.0	EC000310	ETIM 7.0	EC000310
ETIM 8.0	EC000310	ETIM 9.0	EC000310
ECLASS 9.0	19-17-92-90	ECLASS 9.1	27-21-01-90
ECLASS 10.0	19-17-92-90	ECLASS 11.0	19-17-90-90
ECLASS 12.0	27-06-03-20	ECLASS 13.0	27-06-03-20

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	c6099607-b1cd-4fc8-8f5b-8c2defa73093

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

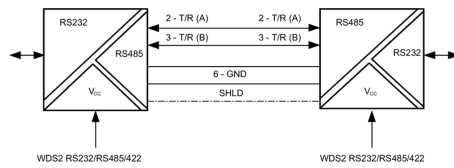
Approval/Certificate/Document of Conformity	Application notes – Type approval Application notes – DNV / GL certification Application notes – Declaration of Conformity
Engineering Data	CAD data – STEP
Product Change Notification	20220218 Technical change - WAVE series' signal conditioners WS WZ
User Documentation	Device description – Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings


RS232 Assignment	SW1				SW2							
	1	2	3	4								
DTE	■	□	■	□								
DCE	□	■	□	■								
Function	1	2	3	4	5	6	7	8				
Transmission speed	■	□	□	□								
2,400 Baud	■	□	□	□								
4,800 Baud	□	■	□	□								
9,600 Baud	□	□	■	□								
19,200 Baud	□	□	□	■								
57,600 Baud	■	■	□	□								
115,200 Baud	■	□	■	□								
Operating modes												
RS485												
RS422												
4-wire												
2-wire												
Data direction control												
Auto												
RTS												
RTS normal												
RTS inverse												
Terminating resistances	1	2	3	4								
4-wire receiver	■	■	□	□								
4-wire transmitter	□	□	■	■								
2-wire	■	■	x	x								

■ = on
□ = off x = no influence

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Accessories

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 10/5 MC NE WS	Version
Order No.	1635000000	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 pc(s).	

2.5 mm²


The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 BL	Version
Order No.	1717990000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883621	
Qty.	60 pc(s).	

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Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 pc(s).	