

WAVESERIES
WDS2 RS232/RS485/422**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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

Type	WDS2 RS232/RS485/422
Order No.	8615700000
Version	Interface converter, RS232, RS485, RS422
GTIN (EAN)	4032248277698
Qty.	1 pc(s).

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Technical data
Dimensions and weights

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

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	0 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-20 °C
Operating temperature	0 °C...55 °C	Storage temperature	-20 °C...85 °C

Probability of failure

MTTF	277 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Communication

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

Assignment	DTE/DCE switchable with DIP switch	Connection type	SUB-D9 (male plug)
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Interface 2

Bit delay	≤ 3 μs	Bit distortion	< 5 %
Shield connection	KLBÜ 4-6/Z1	Status indicator	LED green: supply voltage, TxD, RxD
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		

General data

Configuration	DIP switch	Current-carrying capacity of cross- connect.	≤ 2 A
Galvanic isolation	3-way isolator	Power consumption	ca. 1.5 W
Rail	TS 35	Voltage supply	24 V DC ± 20 %

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Technical data**Insulation coordination**

Clearance & creepage distances	Between neighbouring circuits: 3 mm Between the circuits and PE: 1.5 mm	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
eClass 9.0	19-17-92-90	eClass 9.1	27-21-01-90
eClass 10.0	19-17-92-90	UNSPSC	30-21-18-01

Approvals

Approvals



ROHS Conform

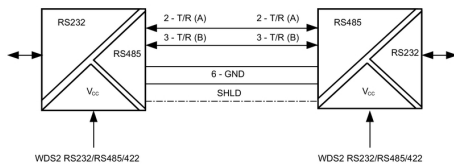
Downloads

Approval/Certificate/Document of Conformity	UL certification File: E141197 Type approval DNV / GL certification Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN_WSCAD
User Documentation	Instruction sheet

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Drawings



RS232 Assignment	SW1				SW2							
	1	2	3	4	1	2	3	4	5	6	7	8
DTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
DCE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
Function												
Transmission speed												
2.400 Baud	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
4.800 Baud	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
9.600 Baud	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
19.200 Baud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
57.600 Baud	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
115.200 Baud	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Operating modes												
RS485												<input type="checkbox"/>
RS422												<input checked="" type="checkbox"/>
4-wire									<input checked="" type="checkbox"/>			
2-wire									<input type="checkbox"/>			
Data direction control												
Auto										<input checked="" type="checkbox"/>		
RTS										<input type="checkbox"/>		
RTS normal											<input type="checkbox"/>	
RTS inverse												<input checked="" type="checkbox"/>
Terminating resistances												
4-wire receiver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
4-wire transmitter	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
2-wire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

■ = on
□ = off x = no influence

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Accessories

ZQV 2.5N



Spring connection with tension clamp Technology

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

General ordering data

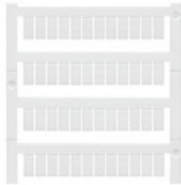
Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	Accessories, Z-series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 BL	Version
Order No.	1717990000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	Z-series, Cross-connector, 24 A
GTIN (EAN)	4008190883621	
Qty.	60 pc(s).	

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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 laser printer, PrintJet ADVANCED, plotter or MC-Mobilo 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).		