

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

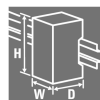
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Do not use product for
new developments, Only
remaining stock available



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 items
Delivery status	This article will no longer be available in the future.
Available until	2023-12-30T00:00:00+01:00
Alternative product	ACT20P-RS232-RS485/422-S

WDS2 RS232/RS485/422

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	92 mm	Depth (inches)	3.622 inch
Height	112.4 mm	Height (inches)	4.4252 inch
Width	22.5 mm	Width (inches)	0.8858 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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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	c6099607-b1cd-4fc8-8f5b-8c2defa73093

Communication

Communication	Bi-directional	Addressing	DIP switch
Interface	1 x serial RS-232/RS-485/RS-422	Protocol	Serial data transfer

Input

Number inputs	1	Type	RS232, RS485/422
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Interface 1

Assignment	DTE/DCE switchable with DIP switch	Control of data direction	Automatic or via RS232 RTS/CTS
Transmission rate	2.4, 4.8, 9.6, 19.2, 57.6, 115.2 kBaud, 8 bit or 8 bit + parity bit	Interface	1 x serial RS-232/RS-485/RS-422
Type	RS232, RS485/422	Communication	Bi-directional
Protocol	Serial data transfer	Bit distortion	<5 %
Bit delay	≤ 3 µs	Connection type	SUB-D9 (male plug)
Addressing	DIP switch		

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Interface 2

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

General data

Protection degree	IP20	Status indicator	LED green: supply voltage, TxD, RxD
Supply voltage	24 V DC ± 20 %	Mounting rail	TS 35
Power consumption	ca. 1.5 W	Nominal power consumption	0.5 VA
Configuration	DIP switch		

Insulation coordination

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

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

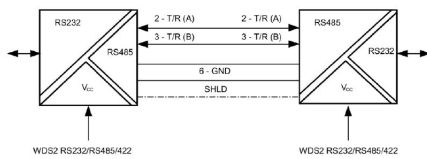
ETIM 6.0	EC000310	ETIM 7.0	EC000310
ETIM 8.0	EC000310	ETIM 9.0	EC000310
ETIM 10.0	EC000310	ECLASS 9.0	19-17-92-90
ECLASS 9.1	27-21-01-90	ECLASS 10.0	19-17-92-90
ECLASS 11.0	19-17-90-90	ECLASS 12.0	27-06-03-20
ECLASS 13.0	27-06-03-20	ECLASS 14.0	27-06-03-20
ECLASS 15.0	27-06-03-20		

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Drawings



RS232 Assignment	SW1											
	1	2	3	4								
DTE	☒	☐	☒	☐								
DCE	☐	☒	☐	☒								
Function	SW2											
	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	SW3											
	1	2	3	4								
4-wire receiver	☒	☒	☐	☐								
4-wire transmitter	☐	☐	☒	☒								
2-wire	☒	☒	x	x								

☒ = on

☐ = off

x = no influence

☒ = on
☐ = off x = no influence

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Accessories

Cross-connections

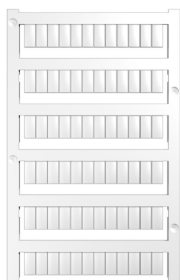


The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883621	
Qty.	60 ST	
Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 ST	
Type	ZQV 2.5N/2 BL	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 ST	
Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 ST	

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 ST	