

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).

Creation date March 29, 2021 11:01:32 PM CEST

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

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

Temperatures

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

MTTF	277 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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

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

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	Type of connection	Screw connection
Voltage supply	24 V DC ± 20 %		

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	ECLASS 11.0	19-17-90-90

Approvals

Approvals



ROHS	Conform
UL File Number Search	E141197

Downloads

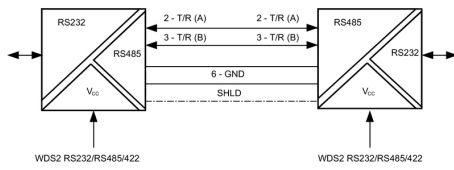
Approval/Certificate/Document of Conformity	UL certification File: E141197 Type approval DNV / GL certification Declaration of Conformity
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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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