

WDS2 RS232/TTY**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, TTY
Order No.	8615690000
Type	WDS2 RS232/TTY
GTIN (EAN)	403224827768 1
Qty.	1 pc(s).

Creation date August 17, 2023 1:37:27 PM CEST

Catalogue status 04.08.2023 / We reserve the right to make technical changes.

WDS2 RS232/TTY

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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	149 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	419 a
----------------------------------	------	------	-------

Communication

Communication	Bi-directional	Interface	1x serial RS-232 / TTA
---------------	----------------	-----------	------------------------

Input

Type	RS232, TTY
------	------------

Interface 1

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

Interface 2

Bit delay	≤ 3 μs	Bit distortion	< 1.5%
Load	≤ 500 Ω	Shield connection	KLBÜ 4-6/Z1
Status indicator	LED green: supply voltage, TxD, RxD	Transmission channels	Full-duplex
Transmission distance	Max. 1000 m twisted pair	Transmission rate	19.2 kBit/s

Output (digital)

Status indicator	LED green: supply voltage, TxD, RxD
------------------	-------------------------------------

General data

Configuration	DIP switch	Galvanic isolation	3-way isolator
Power consumption	ca. 0.8 W	Rail	TS 35
Voltage supply	24 V DC ± 20 %		

WDS2 RS232/TTY

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Insulation coordination

Clearance and 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
ETIM 8.0	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

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
Engineering Data	WSCAD, EPLAN
Product Change Notification	20220218 Technical change - WAVE series' signal conditioners WS WZ
User Documentation	Device description – Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

Creation date August 17, 2023 1:37:27 PM CEST

Catalogue status 04.08.2023 / We reserve the right to make technical changes.

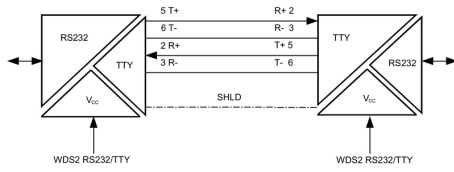
3

WDS2 RS232/TTY

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Drawings



RS232 Assignment	SW1				SW2					
	1	2	3	4	5	6	7	8	9	10
DTE	■	□	■	□						
DCE	□	■	□	■						
Operating mode										
Transmit active						■	□	■	□	■
Transmit passive						□	■	□	■	□
Receive active	■	□	■	□	■					
Receive passive	□	■	□	■	□					

■ = on
 □ = off