

**ACT20P-RS232-RS485/422-S**

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

www.weidmueller.com



The interface converter is intended for use in RS232/RS485/422 systems in an industrial environment. Depending on the use case, different functions can be realised with the device, see section “Applications”.

**General ordering data**

Version	Serial interface converter, Input : serial RS232 signal, Output : RS485/422, Supply voltage: 24 V DC ± 20 %
Order No.	<a href="#">3027140000</a>
Type	ACT20P-RS232-RS485/422-S
GTIN (EAN)	4099986959545
Qty.	1 items
Assignment	DTE/DCE switchable with DIP switch
Control of data direction	Automatic or via RS232 RTS/CTS
Transmission rate	9.600 bps, 19.2 kBit/s, 115.2 kBit/s, 8 bit or 8 bit + parity bit
Baud rate	2.4 / 4.8 / 9.6 / 19.2 / 57.6 / 115.2 kBaud
Interface	1 x serial RS-232/RS-485/RS-422
Creation date	19.02.2026
Type	RS232-45 MEZ
Communication	Bi-directional
Catalogue status / Drawings	even
Parity	even
Protocol	Serial data transfer
Bit distribution	15 %

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## Technical data

### Approvals

Approvals



UL File Number Search [UL Website](#)  
 Certificate no. (cULus) E141197

### Dimensions and weights

Depth	114.2 mm	Depth (inches)	4.4961 inch
Height	117.2 mm	Height (inches)	4.6142 inch
Width	22.5 mm	Width (inches)	0.8858 inch
Net weight	154 g		

### Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-20 °C...70 °C
Humidity	5...95 %, no condensation		

### Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

### Input

Number inputs	1	Type	RS232
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### Output

Type	RS485/422
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### General data

Applications	Convert RS232 signal to RS485/422 signal, Realization of longer cable lengths with RS485, Networking with multiple participants	Installation advice	Indoors only
Protection degree	IP20	Status indicator	LED green: supply voltage, TxD, RxD
Supply voltage	24 V DC $\pm$ 20 %	Mounting rail	TS 35
Power consumption	$\leq$ 1.5 W	Nominal power consumption	1.2 VA
Configuration	DIP switch	Operating altitude	$\leq$ 2000 m

### Insulation coordination

EMC standards	EN 61326	Surge voltage category	II
Pollution severity	2	Galvanic isolation	3-way isolator
Insulation voltage input or output/supply 2 kV DC / 1 min.			

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**Technical data**

**Connection data**

Type of connection	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.6 Nm
Wire connection cross section, finely stranded, min.	0.2 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2 mm <sup>2</sup>
Wire cross-section, finely stranded, min. (AWG)	AWG 24	Wire cross-section, finely stranded, max. (AWG)	AWG 14

**Part description**

Product description	The interface converter is intended for use in RS232/RS485/422 systems in an industrial environment. Depending on the use case, different functions can be realised with the device, see section "Applications".
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**Classifications**

ETIM 8.0	EC000310	ETIM 9.0	EC000310
ETIM 10.0	EC000310	ECLASS 14.0	27-06-03-20
ECLASS 15.0	27-06-03-20		

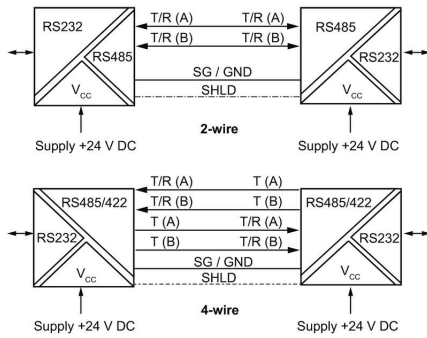
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## Drawings

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### Application



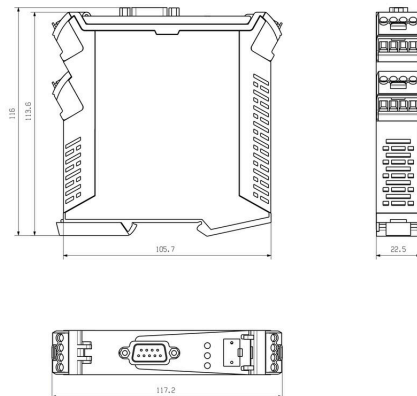
Function	SW1							
	1	2	3	4	5	6	7	8
<b>Transmission rate</b>								
2.400 Baud	■	□	□	□				
4.800 Baud	□	■	□	□				
9.600 Baud	□	□	■	□				
19.200 Baud	□	□	□	■				
57.690 Baud	■	■	□	□				
115.200 Baud	■	□	■	□				
<b>Operation modes</b>								
RS485								□
RS422								■
4-wire					■			
2-wire				□				
<b>Data direction control</b>								
auto						■		
RTS					□			
RTS normal							■	
RTS inverse								□

### Connection diagram

RS232 assignment	SW2			
	1	2	3	4
DTE	■	□	■	□
DCE	□	■	□	■

Terminating resistors	SW3			
	1	2	3	4
4-wire receiver	■	■	□	□
4-wire transmitter	□	□	■	■
2-wire	■	■	X	X

Terminal	Power supply	Pin	RS232
1	-	1	not assigned
2	+24 V DC	2	RxD Received data
3	Supply GND	3	TxD Transmit data
4	Supply GND	4	DTR Data terminal ready
5	Shield / earth connection	5	SG/GND Signal ground
<b>RS485/422</b>			
6		6	DSR Data set ready
7		7	RTS Request to send
8		8	CTS Clear to send
9		9	- not assigned
10		10	
11		11	T/R (A)
12		12	T/R (B)
13		13	T (A)
14		14	T (B)
15		15	
16		16	
17		17	
18		18	
19		19	
20		20	
21		21	not assigned
22		22	SG/GND
23		23	not assigned
24		24	Shield / earth connection



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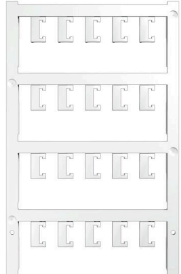
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## Accessories

### Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

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	ESG 6.6/20 BHZ 5.00/04	Version	
Order No.	<a href="#">1082540000</a>		ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable
GTIN (EAN)	4032248845439		
Qty.	200 ST		
Type	ESG 8/13.5/43.3 SAI AU	Version	
Order No.	<a href="#">1912130000</a>		ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent, pluggable
GTIN (EAN)	4032248541164		
Qty.	5 ST		