

IE-CS-MBGW-2TX-1COM

Weidmüller Interfaces GmbH & Co. KG

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Serial/Ethernet converter and Modbus TCP/RTU protocol gateway

- Integrated 2-port switch for line topology without need for additional switch
- Device server and modbus protocol gateway in one device
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 70°C

General ordering data

Version	Serial/Ethernet converter and Modbus TCP/RTU gateway, Number of ports: 2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485, IP30, -40 °C...70 °C
Order No.	2682600000
Type	IE-CS-MBGW-2TX-1COM
GTIN (EAN)	4050118692112
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	75.2 mm	Depth (inches)	2.961 inch
Height	110 mm	Height (inches)	4.331 inch
Width	26.1 mm	Width (inches)	1.028 inch
Net weight	230 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C
Humidity	5 to 95 % (non-condensing)		

EMC conformity and approvals

EMC standards	EN 55032, EN 55024, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 Ghz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms	Free fall	According to IEC 60068-2-31
Safety standard	UL 61010-1, UL 61010-2-201, SELV according to EN 62368-1	Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6		

Environmental conditions

Humidity	5 to 95 % (non-condensing)		
Operating altitude	Altitude, max.	2,000 m	
	Note	in acc. with UL	
	Altitude, max.	6,000 m	
	Note	for restrictions, see the manufacturer's declaration for operating altitude in section downloads	
Operating temperature, max.	70 °C		
Operating temperature, min.	-40 °C		
Storage temperature, max.	85 °C		
Storage temperature, min.	-40 °C		

Guarantee

Time interval	5 years
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<5 sec: System reboot, >5 sec: Factory default

10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port

Technical data

Interfaces

Function DIP switch	1x for pull high resistor settings, 1x for pull low resistor settings, 1x for termination resistor settings	Function reset button	
Number of ports	2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485	RJ45 ports	

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	1,479,078 h

Management features

Device configuration	Webbrowser (HTTP/HTTPS), Command Line Interface (SSH), Upload of a configuration file via web-interface	Monitoring function	Modbus traffic monitor, Syslog, Event based warning via E-Mail, Event based warning via SNMP trap
IP-address management	Static, DHCP-Client, BootP	Security functions	Enable/disable ports, Management access security via secure IP-list and configuration of allowed access methods (web-interface, SSH)
Time synchronization management	SNTP client	Operating modes	Virtual COM mode, TCP Server mode, TCP Client mode, UDP Server/Client mode

Power supply

Connection type	1 removable 4-pin terminal block		
Current consumption	Voltage	24 V DC	
	Current	0.2 A	
Overload current protection	Yes		
Reverse polarity protection	Yes		
Voltage supply	12/24/48 V DC, 2 redundant inputs		
Voltage supply range	Voltage type	DC	
	Voltage, min.	10.8 V	
	Voltage, max.	52.8 V	

Serial communication parameters

Baud rate	110 bit/s to 460800 bit/s	Data bits	7, 8
Flow control	XON/XOFF, RTS/CTS and DTR/DSR (RS-232)	Parity	none, odd, even, Mark, Space
Stop bits	1, 2		

Technical data

Housing main material	Metal	Protection degree	IP30
Type of mounting	DIN rail, Wall mounting, Mounting plate		

Creation date 05 May 2023 10:28:33 CEST

Catalogue status 28.04.2023 / We reserve the right to make technical changes.

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Technical data**Classifications**

ETIM 6.0	EC000310	ETIM 7.0	EC000310
ETIM 8.0	EC000310	ECLASS 11.0	19-17-01-32
ECLASS 12.0	19-17-01-32		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

Approval/Certificate/Document of Conformity	KC certificate EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity Manufacturer's declaration for operating altitude
Engineering Data	CAD data – STEP
Product Change Notification	Firmware Release Notes ComServer/Modbus-Gateway Utility Release Notes
Software	Firmware – Current Firmware Software – ComServer/Modbus-Gateway Utility (Virtual COM Port Driver)
User Documentation	Hardware Installation Guide User manual
Catalogues	Catalogues in PDF-format