

GW MODBUS TCP/ASCII 2E/2DB9 - Interface converters



2702770

<https://www.phoenixcontact.com/us/products/2702770>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



The GW MODBUS TCP/ASCII... converts RAW or ASCII serial strings into Modbus registers. Includes two RJ45 ports and two D-SUB 9 ports.

Commercial data

Item number	2702770
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN09
Product key	DNC323
Catalog page	Page 355 (C-6-2019)
GTIN	4055626339382
Weight per piece (including packing)	217 g
Weight per piece (excluding packing)	159 g
Customs tariff number	85176200
Country of origin	US

GW MODBUS TCP/ASCII 2E/2DB9 - Interface converters



2702770

<https://www.phoenixcontact.com/us/products/2702770>

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
----------	---

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
------------	---

Product properties

Product type	Interface converter
MTBF	68.1 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0)
	45.4 Years (Telcordia standard, 40°C temperature, 50% stress, Environmental Factor = 1.5)

Electrical properties

Electrical isolation	IEC UL 61010-1 (VCC // Ethernet)
Test voltage data interface/data interface	1.5 kV _{rms} (50 Hz, 1 min.)
Test voltage data interface/power supply	1.5 kV _{rms} (50 Hz, 1 min.)
	1.5 kV _{rms}

Supply

Supply voltage range	10.8 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Typical current consumption	88 mA (24 V DC)
Max. current consumption	100 mA (24 V DC)

Function

Management	Web-based management
Status and diagnostic indicators	LEDs: Status, ACT/LNK (Ethernet data traffic)

Connection data

Supply

Conductor cross section, flexible	0.20 mm ² ... 2.50 mm ²
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

Interfaces

Signal	Ethernet
	Modbus
Web server	yes

Data: Modbus/TCP

Serial transmission speed	10/100 Mbps, auto negotiation
---------------------------	-------------------------------

GW MODBUS TCP/ASCII 2E/2DB9 - Interface converters



2702770

<https://www.phoenixcontact.com/us/products/2702770>

Connection method	RJ45 jack, shielded
No. of channels	2
Transmission length	≤ 100 m (shielded twisted pair)
Auxiliary protocols	ARP, DHCP (Client), PING

Data: RS-232

Serial transmission speed	0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps
Number of connections	2
Connection method	D-SUB 9 plug
Pin assignment	DTE
Transmission length	15 m
File format/coding	5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS

Data: RS-422

Serial transmission speed	0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps
Number of connections	2
Connection method	D-SUB 9 plug
Pin assignment	2, 3, 5, 7, 8
Transmission length	≤ 1200 m
Termination resistor	120 Ω (configurable)
File format/coding	5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity

Data: RS-485

Serial transmission speed	0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps
Number of connections	2
Connection method	D-SUB 9 plug
Pin assignment	3, 5, 7
Termination resistor	120 Ω (configurable)
File format/coding	5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity

Dimensions

Width	45 mm
Height	99 mm
Depth	115 mm

Material specifications

Color	gray
Housing material	PA 6.6

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
----------------------	------

GW MODBUS TCP/ASCII 2E/2DB9 - Interface converters



2702770

<https://www.phoenixcontact.com/us/products/2702770>

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	< 2000 m
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Approvals

Conformity/Approvals

Conformance	CE-compliant
UL, USA	UL 61010-1
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4A
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A

Ex data

ATEX	DEMKO 18ATEX 2026X: II 3 G Ex ec IIC T4 Gc
IECEX	IECEX UL 18.0023X Ex ec IIC T4 Gc

EMC data

Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

Standards and regulations

Standards/regulations	EN 55022, EN 55024
-----------------------	--------------------

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

GW MODBUS TCP/ASCII 2E/2DB9 - Interface converters



2702770

<https://www.phoenixcontact.com/us/products/2702770>

Classifications

ECLASS

ECLASS-11.0	27242208
ECLASS-12.0	27242208
ECLASS-13.0	27242208

ETIM

ETIM 9.0	EC001423
----------	----------

UNSPSC

UNSPSC 21.0	43222600
-------------	----------

GW MODBUS TCP/ASCII 2E/2DB9 - Interface converters



2702770

<https://www.phoenixcontact.com/us/products/2702770>

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
------------	--

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com