

GW MODBUS TCP/ASCII 1E/1DB9 - Interface converters



2702768

<https://www.phoenixcontact.com/us/products/2702768>

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2702768 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN09 |
| Product key | DNC323 |
| GTIN | 4055626339368 |
| Weight per piece (including packing) | 167 g |
| Weight per piece (excluding packing) | 111 g |
| Customs tariff number | 85176200 |
| Country of origin | US |

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Technical data

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

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 | 92.1 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0) |
| | 61.4 Years (Telcordia standard, 40°C temperature, 50% stress, Environmental Factor = 1.5) |

Electrical properties

| | |
|---|---------------------------------------|
| Electrical isolation | IEC UL 61010-1 (VCC // Ethernet) |
| Maximum power dissipation for nominal condition | 1.44 W (at 24 V DC) |
| 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 | 48 mA (24 V DC) |
| Max. current consumption | 60 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 |

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| | |
|------------|-----|
| Web server | yes |
|------------|-----|

Data: Modbus/TCP

| | |
|---------------------------|---------------------------------|
| Serial transmission speed | 10/100 Mbps, auto negotiation |
| Connection method | RJ45 jack, shielded |
| No. of channels | 1 |
| 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 | 1 |
| 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 | 1 |
| 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 | 1 |
| 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 | 22.5 mm |
| Height | 99 mm |
| Depth | 115 mm |

Material specifications

| | |
|------------------|-----------------------|
| Color (Housing) | light gray (RAL 7035) |
| Housing material | PA 6.6 |

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Mechanical tests

| | |
|--|---|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : |

Environmental and real-life conditions

Ambient conditions

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

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

Noise emission

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-4 |
|-----------------------|--------------|

Standards and regulations

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

Mounting

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

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Drawings

Block diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702768>


 **UL Listed**
Approval ID: E238705

 **cUL Listed**
Approval ID: E238705

 **IECEX**
Approval ID: IECEX UL 18.0023X

 **cUL Listed**
Approval ID: E196811

 **UL Listed**
Approval ID: E196811

 **ATEX**
Approval ID: DEMKO 18 ATEX 2026X

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242208 |
| ECLASS-15.0 | 27242208 |

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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