

# GW MODBUS TCP/ASCII 2E/4DB9 - Interface converters



2702771

<https://www.phoenixcontact.com/us/products/2702771>

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



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2702771       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN09          |
| Product key                          | DNC323        |
| GTIN                                 | 4055626339399 |
| Weight per piece (including packing) | 246 g         |
| Weight per piece (excluding packing) | 193 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         | 63.5 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0) |
|              | 42.3 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 | 2.88 W (at 24 V DC)                   |
| Test voltage data interface/data interface      | 1.5 kV <sub>rms</sub> (50 Hz, 1 min.) |
| Test voltage data interface/power supply        | 1.5 kV <sub>rms</sub> (50 Hz, 1 min.) |
|   | 1.5 kV <sub>rms</sub>                 |

#### Supply

|                             |   |
|-----------------------------|---|
| Supply voltage range        | 10.8 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Typical current consumption | 110 mA (24 V DC)  |
| Max. current consumption    | 120 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 <sup>2</sup> ... 2.50 mm <sup>2</sup> |
| 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           | 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       | 4   |
| 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     | 4   |
| 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     | 4   |
| 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 (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<br>Ex ec IIC T4 Gc |
| IECEX | IECEX UL 18.0023X<br>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/2702771>


 **UL Listed**  
Approval ID: E238705

 **cUL Listed**  
Approval ID: E238705

 **cUL Listed**  
Approval ID: E196811

 **UL Listed**  
Approval ID: E196811

 **IECEx**  
Approval ID: IECEx UL 18.0023X

 **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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