

GW MODBUS TCP/RTU 2E/4DB9 - Interface converters



2702767  
<https://www.phoenixcontact.com/us/products/2702767>

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The GW MODBUS TCP/RTU... gateway converts serial based Modbus RTU (or ASCII) to Modbus TCP. Supports serial client or server devices. Includes two RJ45 ports and four D-SUB 9 ports.

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2702767             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | DN09                |
| Product key                          | DNC323              |
| Catalog page                         | Page 355 (C-6-2019) |
| GTIN                                 | 4055626339344       |
| Weight per piece (including packing) | 246 g               |
| Weight per piece (excluding packing) | 246 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) |

#### Data management status

|                  |    |
|------------------|----|
| Article revision | 06 |
|------------------|----|

### Electrical properties

|                                            |                                       |
|--------------------------------------------|---------------------------------------|
| Electrical isolation                       | IEC UL 61010-1 (VCC // Ethernet)      |
| 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

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|            |          |
|------------|----------|
| Signal     | Ethernet |
|            | Modbus   |
| 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)      |
| Protocols supported       | Modbus/RTU, Modbus ASCII, Modbus/TCP |
| Auxiliary protocols       | ARP, DHCP (Client), PING             |

## Data: Modbus RTU / ASCII

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| 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: Modbus RTU / ASCII

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| 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: Modbus RTU / ASCII

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| 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

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|                  |        |
|------------------|--------|
| Color            | gray   |
| Housing material | PA 6.6 |

## 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

|                               |                                           |
|-------------------------------|-------------------------------------------|
| 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 |
|---------------|-------------------|

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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/2702767>



**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



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



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

**cULus Listed**

**cULus Listed**

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Classifications

ECLASS

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

ETIM

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

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%                                                                                                                                                                                                        |
| EF3.0 Climate Change                    |                                                                                                                                                                                                                                   |
| CO2e kg                                 | 12.52 kg CO2e                                                                                                                                                                                                                     |

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## Accessories

### PSM-KA9SUB9/BB/2METER - Data cable

2799474

<https://www.phoenixcontact.com/us/products/2799474>

RS-232 cable, 9-pos. D-SUB socket on 9-pos. D-SUB socket, 9-wire, 1:1



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### SUBCON 9/F-SH - D-SUB bus connector

2761499

<https://www.phoenixcontact.com/us/products/2761499>

D-SUB connector, 9-pos. socket, one 35° cable outlet, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block



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## SUBCON-PLUS-F/AX 9 - D-SUB bus connector

2311797

<https://www.phoenixcontact.com/us/products/2311797>



D-SUB connector, 9-pos. female connector, axial version with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

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## PSM-AD-D9-NULLMODEM - Adapter

2708753

<https://www.phoenixcontact.com/us/products/2708753>

V.24 (RS-232) zero modem connector



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## FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/us/products/2832263>

Patch cable, CAT5, assembled, 0.5 m



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## FL CAT5 PATCH 5,0 - Patch cable

2832580

<https://www.phoenixcontact.com/us/products/2832580>

Patch cable, CAT5, assembled, 5 m



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## FL SWITCH SFN 5TX - Industrial Ethernet Switch

2891152

<https://www.phoenixcontact.com/us/products/2891152>



Ethernet switch, 5 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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## DT-LAN-CAT.6+ - Surge protection device

2881007

<https://www.phoenixcontact.com/us/products/2881007>



Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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<https://www.phoenixcontact.com/us/products/2702767>

## SUBCON-PLUS 9/F - D-SUB bus connector

2744241

<https://www.phoenixcontact.com/us/products/2744241>



D-SUB connector, 9-pos. female connector, two 35° cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block

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## SUBCON-PLUS F2 - D-SUB bus connector

2799490

<https://www.phoenixcontact.com/us/products/2799490>



D-SUB connector, 9-pos. female connector, two 35° cable entries, bus system: CAN, SUCONET K1, K2 (MOELLER), S-BUS (Saia), J-BUS (Merlin Gerin), pin assignment: 2, 3, 4, 5, 7, 9 to two screw connection terminal blocks

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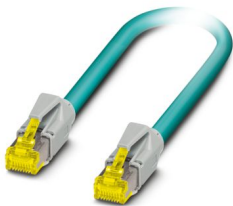
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## NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

<https://www.phoenixcontact.com/us/products/1411854>



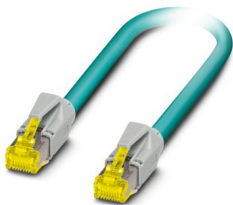
Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight, Ethernet

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## NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/us/products/1408365>



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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## VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

<https://www.phoenixcontact.com/us/products/1656725>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

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## VS-08-RJ45-10G/Q - RJ45 connector

1419001

<https://www.phoenixcontact.com/us/products/1419001>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

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## VS-09-BU-DSUB-EG - Contact insert

1688803

<https://www.phoenixcontact.com/us/products/1688803>



D-SUB contact insert, shell size 1, with nine signal contacts, type of contact socket, with solder cup, straight, fixing with a 3 mm hole, for panel mounting frame and sleeve housing VS-09-...

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## VS-09-ST-DSUB-EG - Contact insert

1688793

<https://www.phoenixcontact.com/us/products/1688793>



D-SUB contact insert, shell size 1, with nine signal contacts, type of contact pin, with solder cup, straight, fixing with a 3 mm hole, for panel mounting frame and sleeve housing VS-09-...

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



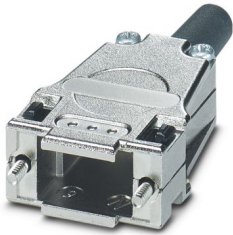
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## CUC-DST-GZNI-S/DSSC9 - D-SUB sleeve housings

1419722

<https://www.phoenixcontact.com/us/products/1419722>



D-SUB sleeve housings, degree of protection: IP20, material: Zinc die-cast, cable outlet: straight, housing size: 1, color: Bare metallic

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## CUC-DST-GPME-S/DSSC9 - D-SUB sleeve housings

1419705

<https://www.phoenixcontact.com/us/products/1419705>



D-SUB sleeve housings, degree of protection: IP20, material: ABS, metal-plated, cable outlet: straight, housing size: 1, color: Bare metallic

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## PSM-ME-RS232/RS232-P - Interface converter

2744461

<https://www.phoenixcontact.com/us/products/2744461>



Interface converter, for the isolation of RS-232 (V.24) interfaces, 4 channels, rail-mountable

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## PSM-ME-RS485/RS485-P - Repeater

2744429

<https://www.phoenixcontact.com/us/products/2744429>



Repeater, for potential separation and range increase in RS-485 2-wire bus systems, 3-way isolation, rail-mountable

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## TTC-6P-3-HF-F-M-24DC-PT-I - Surge protection device

2906797

<https://www.phoenixcontact.com/us/products/2906797>



Surge protection, consisting of protective plug and base element, with integrated status indicator and knife disconnection for three signal wires with common reference potential. For HF applications and telecommunications interfaces without supply voltage. Indirect grounding via gas discharge tube, EX e approval for zone 2. Can be used in safety-related circuits up to SIL 3.

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## TTC-6P-3-HF-F-M-12DC-UT-I - Surge protection device

2906786

<https://www.phoenixcontact.com/us/products/2906786>



Surge protection, consisting of protective plug and base element, with integrated status indicator and knife disconnection for three signal wires with common reference potential. For HF applications and telecommunications interfaces without supply voltage. Indirect grounding via gas discharge tube, EX e approval for zone 2. Can be used in safety-related circuits up to SIL 3.

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## FL DIN RA - DIN rail adapter

2891053

<https://www.phoenixcontact.com/us/products/2891053>

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



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