

## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423


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The GW EIP/MODBUS... enables two-way communication between EtherNet/IP™ and Modbus protocols. Includes one RJ45 port and two D-SUB 9 ports.



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 055626 718460 |
| GTIN                                 | 4055626718460   |
| Weight per Piece (excluding packing) | 185.000 g   |
| Custom tariff number                 | 85176200  |
| Country of origin                    | United States   |
| Note                                 | Made to Order (non-returnable)  |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 99 mm   |
| Depth  | 115 mm  |

#### Ambient conditions

|  |                                |
|--|--------------------------------|
| Ambient temperature (operation)          | -40 °C ... 70 °C               |
| Ambient temperature (storage/transport)  | -40 °C ... 80 °C               |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)  |
| Altitude                                 | < 2000 m                       |
| Degree of protection                     | IP20                           |
| Noise immunity                           | EN 61000-6-2:2005              |

#### General

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

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## Technical data

### General

|  |   |
|--|---|
| 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>   |
|  | 1.5 kV <sub>rms</sub> (50 Hz, 1 min.)   |
| Electromagnetic compatibility              | Conformance with EMC Directive 2014/30/EU   |
| Noise emission                             | EN 61000-6-4  |
| Net weight                                 | 185 g   |
| Housing material                           | PA 6.6  |
| Color                                      | gray  |
| MTBF                                       | 69.4 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0) |
|  | 46.3 Years (Telcordia standard, 40°C temperature, 50% stress, environmental factor = 1.0) |
| Conformance                                | CE-compliant  |
| UL, USA                                    | UL 61010-1  |
| UL, USA/Canada                             | Class I, Div. 2, Groups A, B, C, D T4A  |

### Power supply

|                                       |   |
|---------------------------------------|---|
| Supply voltage range                  | 10.8 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Max. current consumption              | 85 mA (24 V DC)   |
| Typical current consumption           | 76 mA (24 V DC)   |
| Conductor cross section flexible max. | 2.50 mm <sup>2</sup>  |
| Conductor cross section flexible min. | 0.20 mm <sup>2</sup>  |
| Conductor cross section AWG max.      | 12  |
| Conductor cross section AWG min.      | 24  |

### Interfaces

|                             |   |
|-----------------------------|---|
| Interface 1                 | EtherNet/IP™, MODBUS TCP  |
| Interface                   | Ethernet  |
| No. of ports                | 1   |
| Connection method           | RJ45 socket, shielded   |
| Transmission length         | ≤ 100 m (shielded twisted pair)                                   |
| Protocols supported         | EtherNet/IP, MODBUS ASCII/RTU/TCP                                 |
| Auxiliary protocols         | ARP, DHCP (Client), PING  |
| Serial transmission speed   | 10/100 Mbps, auto negotiation                                     |
| Interface                   | RS-232  |
| Number of connections       | 2   |
| Connection method           | D-SUB 9 plug  |
| File format/coding          | 5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity |
| Transmission length         | 15 m  |
| Data flow control/protocols | Software handshake, Xon/Xoff or hardware handshake RTS/CTS        |
| 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 |
| Interface                   | RS-422  |

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### Technical data

#### Interfaces

|                           |   |
|---------------------------|---|
| Number of connections     | 2   |
| Connection method         | D-SUB 9 plug  |
| File format/coding        | 5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity |
| Transmission length       | ≤ 1200 m  |
| Termination resistor      | 120 Ω (configurable)  |
| 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 |
| Interface                 | RS-485  |
| Number of connections     | 2   |
| Connection method         | D-SUB 9 plug  |
| File format/coding        | 5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity |
| Termination resistor      | 120 Ω (configurable)  |
| 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 |

#### Function

|                      |                      |
|----------------------|----------------------|
| Web-based management | yes                  |
| Management           | Web-based management |

#### Standards and Regulations

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU                    |
| Type of test                  | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
|                               | Shock in acc. with EN 60068-2-27/IEC 60068-2-27              |
| Noise emission                | EN 61000-6-4   |
| Noise immunity                | EN 61000-6-2:2005  |
| Standards/regulations         | EN 55022, EN 55024   |
| 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                             |
| ATEX                          | DEMKO 18ATEX 2026X: II 3 G<br>Ex ec IIC T4 Gc                |
| IECEX                         | IECEX UL 18.0023X<br>Ex ec IIC T4 Gc                         |

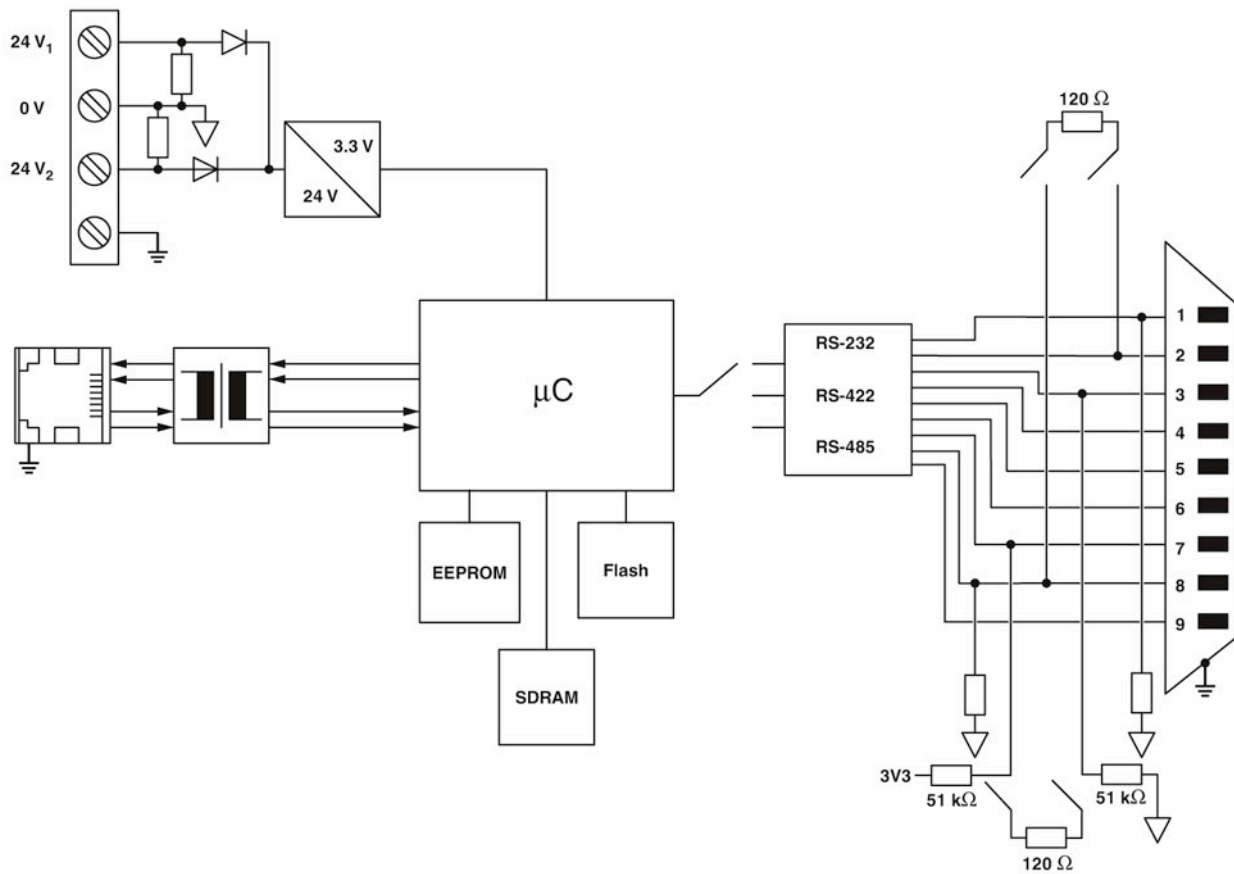
#### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Drawings

## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423

Block diagram



## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 19179290 |
| eCl@ss 9.0    | 19179290 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000310 |
| ETIM 6.0 | EC000310 |
| ETIM 7.0 | EC000310 |

### Approvals

#### Approvals

#### Approvals


UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

IECEX / ATEX / UL Listed / cUL Listed / cULus Listed

#### Approval details

|           |   |   |               |
|-----------|---|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|-----------|---|---|---------------|

|            |   |   |               |
|------------|---|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|------------|---|---|---------------|

|              |   |  |  |
|--------------|---|--|--|
| cULus Listed |  |  |  |
|--------------|---|--|--|

### Accessories

#### Accessories

#### Adapter

## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423

### Accessories

Adapter - PSM-AD-D9-NULLMODEM - 2708753



V.24 (RS-232) zero modem connector

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### Adapter cable

Data cable - PSM-KA9SUB9/BB/2METER - 2799474



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

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### Data cable preassembled

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854



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

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

D-SUB bus connector - SUBCON 9/F-SH - 2761499



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

## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423

### Accessories

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

#### D-SUB bus connector - SUBCON-PLUS 9/F - 2744241



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

#### D-SUB bus connector - SUBCON-PLUS F2 - 2799490



D-SUB connector, 9-pos. female connector, two cable entries < 35°, 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

#### RJ45 connector - VS-08-RJ45-5-Q/IP20 - 1656725



RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042

#### RJ45 connector - VS-08-RJ45-10G/Q - 1419001



RJ45 connector, IP20, CAT6<sub>A</sub>, 8-pos., with QUICKON fast connection technology, for 26 ... 24 AWG 1-wire and 7-wire conductors, color: black

#### Female insert

## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423

### Accessories

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

Interface converter - PSM-ME-RS232/RS232-P - 2744461



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

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Repeater - PSM-ME-RS485/RS485-P - 2744429



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

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### Male insert

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

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### Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m



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### Accessories

Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5 m

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### Sleeve housings

D-SUB sleeve housings - CUC-DST-GZNI-S/DSSC9 - 1419722



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

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D-SUB sleeve housings - CUC-DST-GPME-S/DSSC9 - 1419705



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

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### Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 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+) "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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Surge protection device - TTC-6P-3-HF-F-M-24DC-PT-I - 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-filled surge arrester.

## Interface converters - GW EIP/MODBUS 1E/2DB9 - 1062423

### Accessories

Surge protection device - TTC-6P-3-HF-F-M-12DC-UT-I - 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-filled surge arrester.

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### Switch

Industrial Ethernet Switch - FL SWITCH SFN 5TX - 2891152



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