

## Router - TC CLOUD CLIENT 1002-TX/TX - 2702885

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Industrial VPN gateway for mGuard Secure Cloud, IPsec communication via operator network, 2-port switch, 1 digital input, 1 digital output

### Product Description

The CLOUD CLIENT TX/TX is positioned as a cost-effective field device for secure remote maintenance scenarios via the operator network. The devices are optimized for use with the mGuard Secure Cloud. For this reason, all CLOUD CLIENT devices support Virtual Private Networks (VPNs) as standard.


A scope of functions optimized for the mGuard Secure Cloud enables quick startup of the devices in the field.

### Your advantages

- ✓ Secure communication via IPsec
- ✓ Configuration via web-based management or microSD card
- ✓ Cloud-based VPN infrastructure from Phoenix Contact
- ✓ Turnkey VPN infrastructure for operators, machine builders, and systems manufacturers
- ✓ Secure and reliable, thanks to industry-proven mGuard security technology



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 376783
GTIN	4055626376783
Weight per Piece (excluding packing)	320.000 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	Use in potentially explosive areas is not permitted in China.
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## Technical data

### Dimensions

Width	45 mm
Height	130 mm
Depth	126 mm

### Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	0 °C ... 60 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Degree of protection	IP20 (Manufacturer's declaration)
Noise immunity	EN 61000-6-2

### General

Electrical isolation	VCC // FE // Ethernet
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Mounting type	DIN rail mounting
Net weight	222 g
Housing material	Plastic
Color	gray
Degree of pollution	2

### Power supply

Supply voltage range	10 V DC ... 30 V DC (SELV, via pluggable Push-in terminal block)
Max. current consumption	500 mA
Typical current consumption	< 200 mA (24 V DC)
Conductor cross section flexible max.	1.50 mm <sup>2</sup>
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.50 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section AWG max.	16
Conductor cross section AWG min.	26

### Interfaces

Interface 1	Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3
Interface	Ethernet
Operating mode	Indoor use only
No. of ports	2 (SELV)
Connection method	RJ45 jack, shielded
Transmission length	100 m (shielded twisted pair)

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## Technical data

### Interfaces

Protocols supported	TCP/IP, UDP/IP, FTP, HTTP
Auxiliary protocols	ARP, DHCP, PING (ICMP), SNMP V1, SMTP
Serial transmission speed	10/100 Mbps, auto negotiation

### Function

Web-based management	yes
Management	Web-based management, SNMP
Number of VPN tunnels	1
Security functions	Supported 3DES, AES-128, -192, -256 ESP tunnel X.509v3, PSK MD5, SHA-1 RFC 3706

### Digital outputs

Output name	Digital output
Number of outputs	1
Voltage output signal	10 V DC ... 30 V DC (depending on the operating voltage)
Current output signal	≤ 50 mA (Not short-circuit proof)

### Digital inputs

Description of the input	Digital input
Number of inputs	1
Switching level "1" signal	10 V DC ... 30 V DC
Voltage input signal	10 V DC ... 30 V DC

### Conformance/approvals

Designation	CE
Certificate	CE-compliant
Designation	UL, USA/Canada
Identification	Class I, Zone 2, AEx nA IIC T4 / Ex nA IIC T4 Gc
	Class I, Div. 2, Groups A, B, C, D T4
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

### 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
Test result	5g, 10...150 Hz, 2.5 h, in XYZ direction
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g
Noise immunity	EN 61000-6-2
Standards/regulations	EN 61000-4-2

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#### Standards and Regulations

Contact discharge	± 6 kV (Test Level 3)
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz (Test Level 3)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Signal	± 1 kV (Data line, asymmetrical)
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz

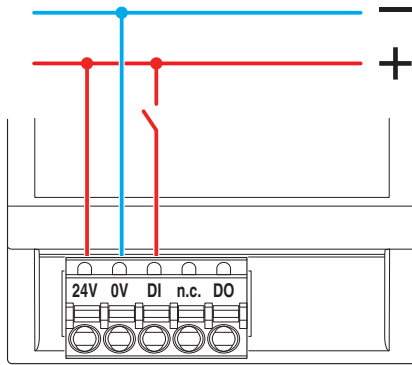
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

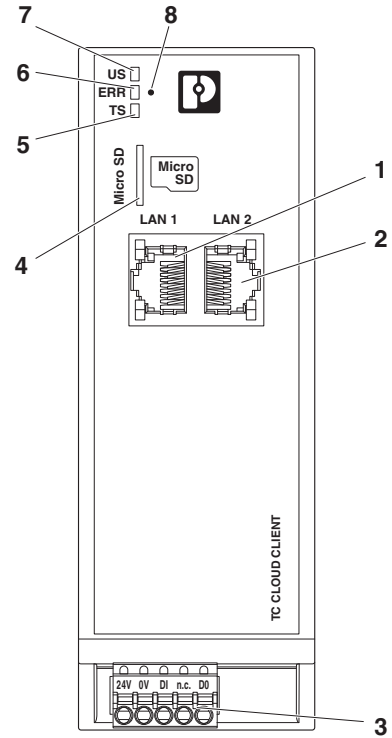
# Router - TC CLOUD CLIENT 1002-TX/TX - 2702885

Connection diagram



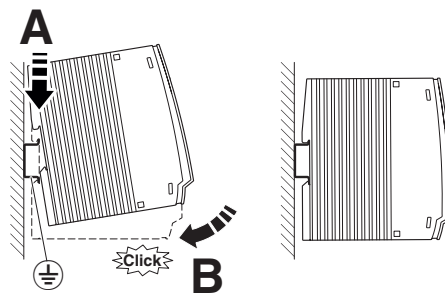
Switching input and switching output

Schematic diagram



Front view

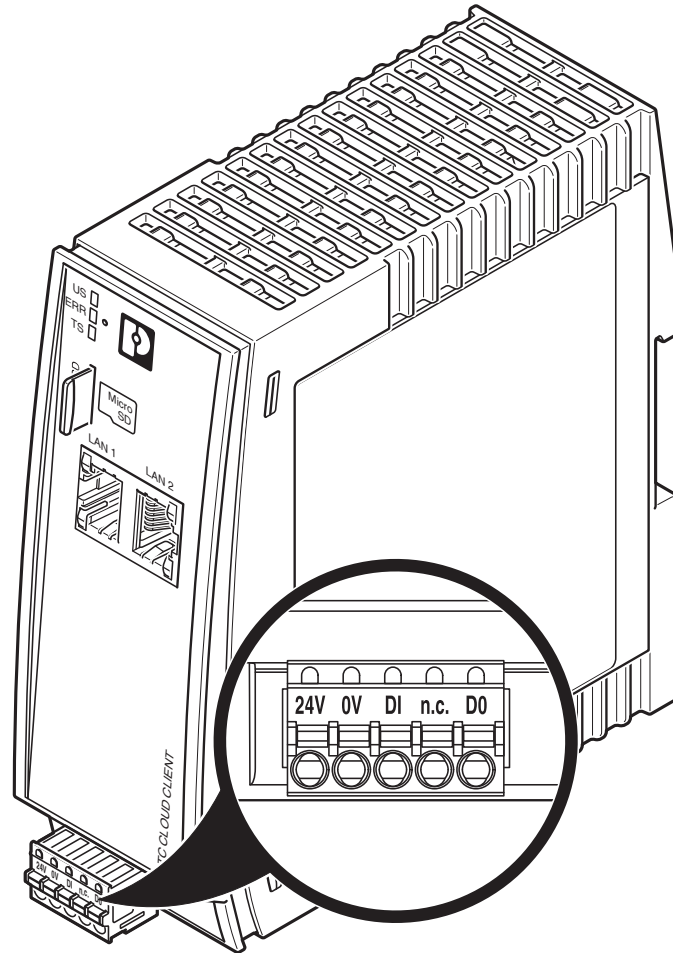
Schematic diagram



DIN rail mounting

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Schematic diagram



Connecting the supply voltage

## Classifications

eCl@ss

eCl@ss 10.0.1	19170405
eCl@ss 11.0	19170405
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170103
eCl@ss 9.0	19170103

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## Classifications

### ETIM

ETIM 6.0	EC001478
ETIM 7.0	EC001478

## Approvals

### Approvals

Approvals

cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

cULus 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
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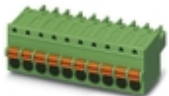
## Accessories

### Accessories

#### PCB plug

PCB connector - FK-MCP 1,5/ 5-ST-3,81GY35BD-D0 - 1105116

PCB connector, nominal cross section: 1.5 mm<sup>2</sup>, color: light gray, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, Number of rows: 1, Number of positions per row: 5, product range: FK-MCP 1,5/..-ST, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: MINI COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard



### Power supply

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### Accessories

Power supply unit - TRIO-PS-2G/1AC/24DC/3/C2LPS - 2903147



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: 1-phase, output: 24 V DC/3 A C2LPS