

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 TC 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 TC 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 ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section solid max.	1.50 mm ²
Conductor cross section solid min.	0.14 mm ²
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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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
Identification	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

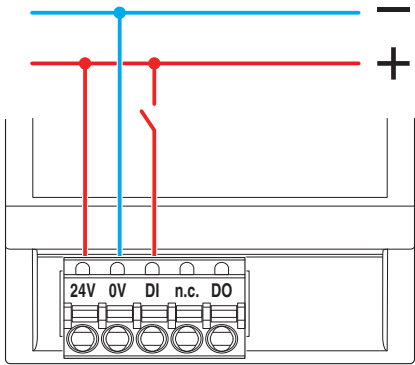
Environmental Product Compliance

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

Drawings

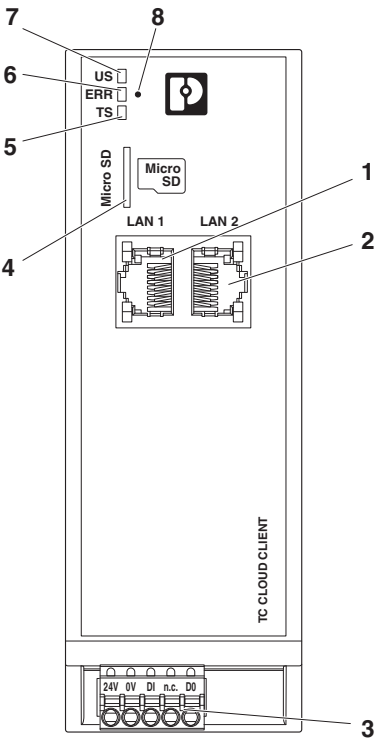
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Connection diagram



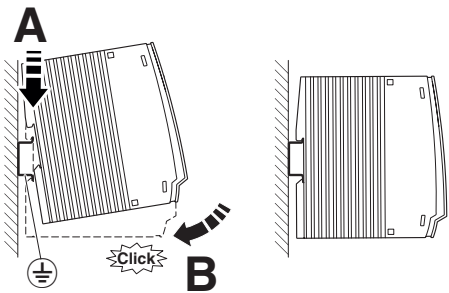
Switching input and switching output

Schematic diagram



Front view

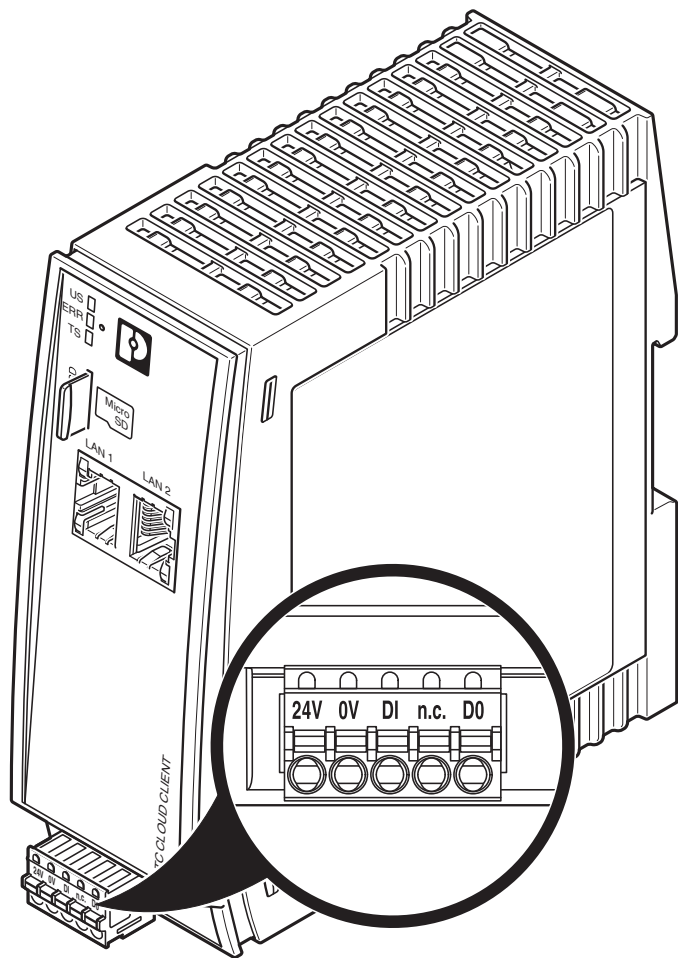
Schematic diagram



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

UL Listed / cUL Listed / cULus Listed


Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cULus Listed			
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