

Komunikacijski prehod z WLAN-, Ethernet- in RS485-povezavo

Communication Gateway with WLAN-, Ethernet- and RS485-Connection



Predvidena uporaba

Modul COM.GW.500 (COM) služi kot prehod za enega ali več merilnih modulov DAT.PM.063A3P.KA/SA (DAT). Modul COM je opremljen z različnimi vmesniki (Ethernet, WLAN, RS485), prek katerih je mogoče merilne vrednosti iz modulov DAT posredovati nadrejenim sistemom in storitvam prek protokolov Modbus TCP/RTU in MQTT. Poleg tega modul COM vključuje integriran spletni strežnik, ki omogoča prikaz merilnih podatkov, konfiguracijo modulov DAT ter prilagajanje nastavitvev prek spletnega portala. Modul COM ima tudi digitalne vhode in izhode (I/O), ki jih lahko uporabnik po potrebi poljubno konfigurira.

Podroben uporabniški priročnik je na voljo za prenos na spletni strani: phi.krausnaimer.com/downloads.

Intended Use

The COM.GW.500 (COM) module serves as a gateway for one or more DAT.PM.063A3P.KA/SA (DAT) measurement modules. The COM module features various interfaces (Ethernet, WLAN, RS485) through which the measurement values from the DAT modules can be forwarded to higherlevel systems and services via Modbus TCP/RTU and MQTT. Additionally, the COM module features an integrated web server that allows to visualize measurement data, configure DAT modules, and adjust settings via a web portal. Furthermore, the COM module includes digital inputs and outputs (I/Os) that can be configured by the user as needed.

A detailed user manual is available for download on the website phi.krausnaimer.com/downloads.

Izjava EU/UK o skladnosti

K & N Schalterentwicklungsgesellschaft m. b. H. (EU) in Kraus & Naimer Ltd (UK) izjavljata, da je COM.GW.500 skladen z vsemi temeljnimi zahtevami in ustreznimi določbami Direktive o radijski opremi 2014/53/EU.

EU/UK izjava o skladnosti z oznako dokumenta "KKE 9801-XA/X / 03.25" je na voljo za prenos na spletni strani: phi.krausnaimer.com/downloads.



EU/UK Declaration of Conformity

K & N Schalterentwicklungsgesellschaft m.b.H (EU) and Kraus & Naimer Ltd (UK) hereby declares that the COM.GW.500 complies with all basic requirements and relevant provisions of the Radio Equipment Directive 2014/53/EU.

The EU/UK declaration of conformity with the document number "KKE 9801-XA/X / 03.25" is available for download on the website phi.krausnaimer.com/downloads.



PROSIMO, UPOŠTEVAJTE

Električno namestitev in uporabo modula COM sme izvajati izključno usposobljeno strokovno osebje!

Med namestitvijo in uporabo je treba upoštevati vse lokalne, regionalne in nacionalne predpise ter zakonodajo!

Če pri odstranjevanju modula COM iz embalaže opazite kakršne koli poškodbe, ga ne nameščajte!

Modula COM ni dovoljeno odpirati!

Za modul COM niso predvidena nobena vzdrževalna ali servisna dela.

PLEASE NOTE

The electrical installation and operation of the COM module may only be carried out by qualified personnel!

The local, regional and national rules and regulations must be respected during installation and usage!

If damage is detected when removing the COM module from its packaging, do not install it!

The COM module must not be opened!

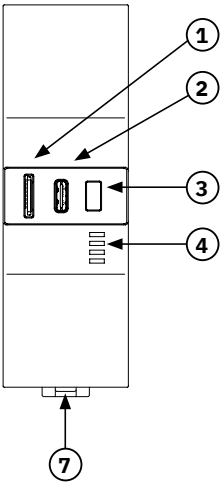
No maintenance or service is intended for the COM module.

Opozorila glede kibernetske varnosti

Za zaščito pred kibernetskimi grožnjami morajo biti sistemi, stroji in omrežja vključeni v celovit varnostni koncept. Varnostni koncept mora ustrezati trenutnemu stanju tehnike ter se neprekinjeno vzdrževati in posodabljati, da se zagotovi kibernetska varnost.

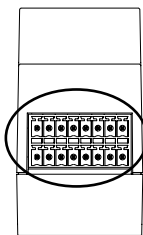
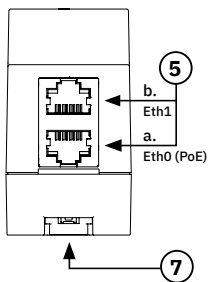
Cybersecurity-Notices

To be protected against cyber threats, the systems, machines and networks must be integrated into a holistic security concept. The security concept must correspond to the current state of the art and be continuously maintained to ensure cybersecurity.



Opis modula	Module Description
1 Reža za kartico microSD	microSD slot
2 Vrata USB-C	USB-C Port
3 Uporabniški gumb	User Button
4 LED-indikator stanja	LED status indicator
5 2x Ethernet a. Eth0 (podpira PoE) b. Eth1 (ne podpira PoE)	2x Ethernet a. Eth0 (PoE capable) b. Eth1 (not PoE capable)
6 16-polni priključek za RS485 / I/O / 24 V DC	16-pin connection for RS485 / IOs / 24 V DC
7 Mehанизem za zaklepanje na DIN-letev	Locking device for DIN rail
8 8-polni priključek za razširitvene module	8-pin connection for expansion modules

Podrobne informacije so na voljo v uporabniškem priročniku Detailed Information can be found in the user manual.

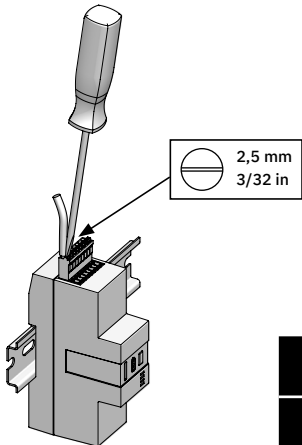
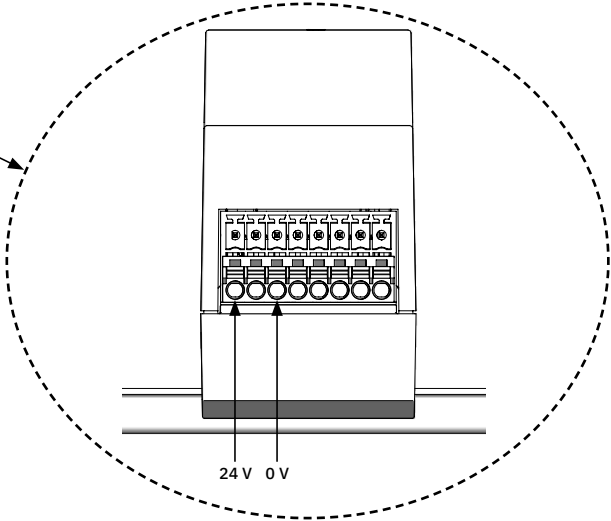
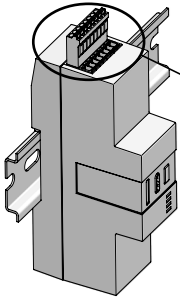
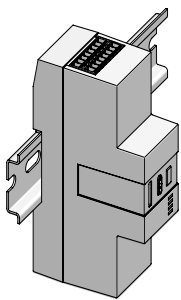


DIO 0-7							
0	1	2	3	4	5	6	7
24 V	24 V	0 V	0 V	0 V	0 V	Data A RS0-P	Data B RS0-N
Napajanje modula in I/O (0 V za DI, 24 V za DO) Supply modul + IOs (0 V for DI, 24 V for DO)							
RS485 Half-Duplex							

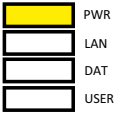
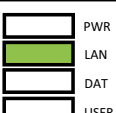
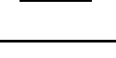
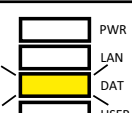
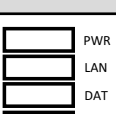
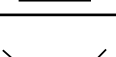
8			
Data A RS0-P	0 V	Data A RS1-P	NC
Data B RS0-N	0 V	Data B RS1-N	NC
RS485 Half-Duplex			

Namestitev in priključitev

Installation and Connection



Konstrukcija vodnika za 8-polni priključek				
Conductor construction 8-pole terminal				
	Min.	Maks.	Dolžina odstranjene izolacije	
	Min.	Max.	Stripping length	
polni/ večžilni vodnik	solid / multi-wired		0,2 mm² / AWG 24	1,5 mm² / AWG 16
večžilni vodnik z votlico	stranded with ferrule		0,25 mm²	1,5 mm²
			8–10 mm / 0,31–0,39 in	8–10 mm / 0,31–0,39 in

Opis LED-indikatorja stanja		Description LED Status Indicator
Stanje napajanja		
	Rumena: Zagonski nalagalnik	Yellow: Bootloader
	Utripajoča zelena: Postopek zagona	Green flashing: Boot process
	Zelena: Normalno delovanje	Green: Operation OK
	Utripajoča rdeča: Napaka	Red flashing: Error
	Izmenično utripajoča rumena/zelena: Update	Yellow/Green flashing: Update
LAN/WLAN		
	Zelena: Vsi konfigurirani vmesniki so povezani	Green: All configured interfaces are connected
	Utripajoča zelena: Prenos podatkov	Green flashing: Data transfer
	Rumena: Vsaj eden od konfiguriranih vmesnikov ni povezan. Na primer, konfigurirana sta Ethernet in WLAN, vendar povezava WLAN ni vzpostavljena.	Yellow: At least one of the configured interfaces is not connected. For example, both the Ethernet connection and WLAN were configured, but WLAN is not connected.
	Utripajoča rumena: Podatki se prenašajo, vendar eden od konfiguriranih vmesnikov ne deluje ali ni povezan. Na primer, konfigurirana sta Ethernet in WLAN, prenos podatkov pa poteka samo prek Ethernet povezave.	Yellow flashing: Data is being transmitted; however, one of the configured interfaces is not operational or connected. For example, both the Ethernet connection and WLAN were configured, but data transmission is occurring only over Ethernet.
DAT		
	Utripajoča rumena: Noben modul DAT ni povezan	Yellow flashing: No DAT module connected
	Utripajoča zelena: Prenos podatkov	Green flashing: Data transfer
	Zelena: Vsi seznanjeni moduli DAT so povezani	Green: All paired DAT modules connected
	Izmenično utripajoča zelena/rdeča: Prekinjena je vsaj ena povezava z modulom DAT	Green/Red flashing: Min. one DAT connection interrupted
	Rdeča: Vse povezave z moduli DAT so prekinjene	Red: All DAT connections interrupted
Uporabnik		
	Zelena: - Splet (Web): Uporabnik je prijavljen in aktiven - Alarm: Izbran prag alarma	Green: - Web: User is logged in and active - Alarm: Selected threshold
	Utripajoča zelena: - Modbus: Prisotna je komunikacijska aktivnost (veljavna poizvedba) - Alarm: Izbran prag alarma	Green flashing: - Modbus: If there is activity (valid query) - Alarm: Selected threshold

Tehnični podatki

Nazivna napetost	24 V DC +/- 10%
Maks. poraba toka pri napajanju 24 V DC	4,5 A DC
Nazivna napetost PoE	0 IEEE 802.3af
Delovna temperatura	-25 °C do +60 °C
Pogoji transporta in skladiščenja	-40 °C do +85 °C
Stopnja onesnaženosti	2
Nadmorska višina	< 2000 m
Relativna vlažnost	95 % brez kondenzacije
Stopnja odpornosti proti udarcem	3M12 IEC 60721-3-3
Radijska komunikacija	WLAN: • IEEE 802.11 a/b/g/n/ac • 2,4 GHz/5 GHz Brezžična komunikacija: • ISM-pas: 2,400 do 2,4835 GHz • Oddajna moč: 8 dBm
Dolžina kabla za I/O	največ 30 m (izogibajte se dolgim kablom) Primerno samo za uporabo v zaprtih prostorih
I/O – vhod	12-30 V DC
I/O – izhod	24 V DC na izhod, največ 500 mA na izhodu

Technical Data

Nominal Voltage	24 V DC +/- 10%
Max. current consumption with 24 VDC supply	4.5 A DC
Rated voltage PoE	0 IEEE 802.3af
Operating temperatur	-25 °C to 60 °C
Transport and storage conditions	-40 °C to 85 °C
Pollution degree	2
Altitude	< 2000 m
Relative humidity	95% without condensation
Shock resistance index	3M12 IEC 60721-3-3
Radio communication	WLAN: • IEEE 802.11 a/b/g/n/ac • 2.4 GHz/5 GHz Wireless: • ISM-Band: 2.400 to 2.4835 GHz • Transmitter power: 8 dBm
I/Os cable length	Cable length of max. 30 m (avoiding long cables) Only suitable for indoor use
I/Os - Input	12-30 V DC
I/Os - Output	24 V DC per output max. 500 mA

Proizvajalec / Manufacturer:

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