

COMTRAXX® COM461MT

BMS-Ethernet-Gateway for the connection of Bender devices with BMS capability to the Ethernet (TCP/IP) via the Modbus/TCP protocol



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Device features

- Setting of the IP address, BMS address and time/date using Standard web browser
- Time synchronisation for all BMS bus devices
- Integrated Ethernet switch: 2 x RJ45, 10/100 Mbit/s
- · Can be operated on the internal BMS bus
- Modbus/TCP data access to the internal BMS bus, max. 150 BMS devices
- Commands can be sent from an external application (e.g. visualisation software) to BMS devices and measured values read.

Approvals





Product description

The BMS-Ethernet-Gateway COM461MT contains a Modbus/TCP server that converts BMS data for a Modbus client. A web server makes it possible to configure the COM461MT.

Ethernet-TCP/IP interface:

The coupling is performed via the internal Layer-2 switch. Two Ethernet ports are available.

Interface on the BMS side:

COM461MT can be operated as master or slave.

Possible applications

- The use of professional visualisation programs by converting the BMS data to the Modbus/TCP protocol
- Observing and analysing Bender products that support communication, such as RCMS, EDS and MEDICS® systems

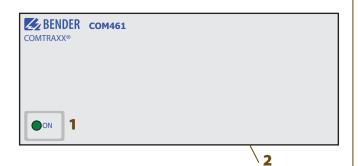
Ordering information

Supply voltage/ frequency range <i>U</i> s	Supply voltage/ frequency range <i>U</i> s For UL application		Power consumption	Туре	Art. No.
AC/DC	AC	DC			
76276 V ¹⁾ , 42460 Hz	76250 V, 2560 mA, 42460 Hz	76250 V, 621 mA	≤ 6,5 VA	COM461MT	B 9506 1021

¹⁾ Absolute values

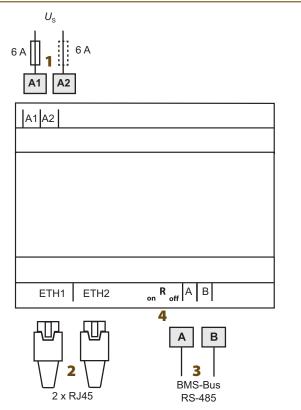


Operating elements



- 1 "ON" LED lights when supply voltage is applied
- 2 Ron/off (beside terminals A, B) Switch for terminating the BMS bus. When the device is installed at the end of the bus, set the terminating switch to "on".

Wiring diagram



- 1 Connection to the supply voltage, 6 A fuse recommended, two-pole fuses should be used on IT systems.
 For UL and CSA applications, it is mandatory to use 5 A fuses.
- 2 Two connections for connection to a personal computer or connection to the local network (hub, switch, router);Connection using a CAT5 cable; internal Layer-2-Switch with cable autodetect.
- **3** Connection to the internal BMS bus with shielded cable (e.g. J-Y(St)Y 2x0.8)
- 4 Switch for BMS bus termination. When the device is installed at the end of the bus, set the terminating switch to "on".

Technical data

Rated insulation voltage	AC 250 V
Rated impulse voltage/pollution degree	4 kV/3
Supply voltage	
Supply voltage <i>U</i> S	see ordering information
Frequency range $U_{\rm S}$	see ordering information
Power consumption	see ordering information
LED indicators	
2 x Ethernet ETH1, ETH2 act/link	
lights when connected to the netw	ork, flashes during data transmission
ON	operation indicator
Interfaces	
BMS bus internal:	
Interface/protocol	RS-485/BMS bus internal
Operating mode	master/slave (slave)*
Baud rate BMS internal	9.6 kbit/s
Cable length	≤ 1200 m
Cable (twisted pair, shielded, shield connected to PE on one side)	recommended: J-Y(St)Y 2x0.8
Connection, BMS internal	terminals A, B
Terminating resistor	120 Ω (0.25 W)
Device address, BMS bus internal	199 (2)*
Ethernet:	
Connection	2 x RJ45
Data rate	10/100 Mbit/s, autodetect
IP address	nnn.nnn.nnn (192.168.0.254)*
	(2EE 2EE 0.0)*
Netmask	nnn.nnn.nnn (255.255.0.0)*

Environment/EMC	
EMC	EN 61326-1
Classification of climatic conditions acc. to IEC 60721:	
Stationary use	3K5
Transport	2K3
Long-term storage	1K4
Operating temperature	-10+55 ℃
Classification of mechanical conditions acc. to IEC 60721:	
Stationary use	3M4
Transport	2M2
Long-term storage	1M3
Connection	

Co	nr	a	cti	'n	n
CU		ıc		v	•••

Connection	screw-type terminals
Connection properties:	
Rigid/flexible	$0.24/0.22.5 \text{ mm}^2 \text{ (AWG } 2412)$
Multi-conductor connection (2 co	inductors with the same cross section):
rigid/flexible	0.21.5 0.21.5 mm ²
Stripping length	89 mm
Tightening torque	0.50.6 Nm

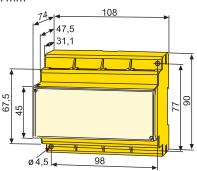
Other

Operating mode	continuous operation
Mounting	display oriented
Degree of protection, internal components (IEC 60529)	IP30
Degree of protection, terminals (IEC 60529)	IP20
Type of enclosure	X460
Screw mounting	2 x M4
DIN rail mounting acc. to	IEC 60715
Flammability class	UL94V-0
Software version	D402 V1.0x
Weight	≤ 310 g

()* = factory setting

Dimension diagram XM460

Dimensions in mm





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