

Protocol converter FTC470XET

to interface the BMS bus with TCP IP via Ethernet



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BENDER

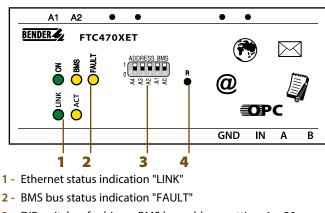


FTC470XET

Device features

- Display of BMS data via standard web browser
- Fast, simple parameterisation of Bender system settings in a central location
- Display of current operating and alarm messages and measured values
- Detailed information at a glance
- Display of historical data
- Useful data logger function
- OPC interface for communication with higher-level systems (building management systems or visualisation software)
- · Easy installation and commissioning
- E-mail notification in case of alarm and system faults
- Remote maintenance and remote diagnosis per LAN, WAN or Internet
- · Independent of hard and software

Operating elements



- 3 DIP switches for binary BMS bus address setting: 1...30
- 4 Reset button "R"

Product description

The protocol converter FTC470XET is designed to be used as Ethernet gateway with web server. The FTC470XET converts data from the BMS bus into TCP/IP protocol (Ethernet). In this way, data from BMS systems can be displayed on a personal computer via a web browser. Additional software need not to be installed.

Application

- Conversion of BMS data into TCP/IP protocol (Ethernet)
- Querying and setting Bender devices with communication possibilities, such as RCMS, EDS and MEDICS[®] systems
- Data transmission to building services management systems and visualisation systems via an integrated OPC interface.

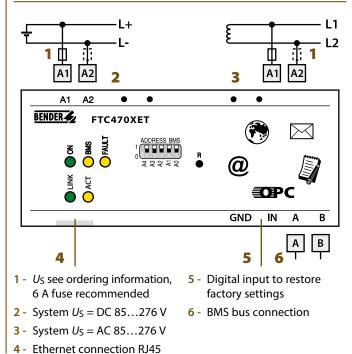
Functions

The protocol converter FTC470XET can be integrated into existing EDP systems like a personal computer. After entering an IP address and connection to the network and to a BMS system, a standard web browser (e.g. Internet Explorer, Netscape Navigator) of a personal computer allows access to the entire data of a BMS system. In this way, all important measuring data of the system are directly available. The parameterisation of the Bender systems is protected by a password.

Approvals



Wiring diagram



Technical data

Insulation coordination acc. to IEC 60664-1	
Rated insulation voltage	AC 250 V
Rated impulse withstand voltage/pollution degree	4 kV/3

Supply voltage

Supply voltage Us	see ordering information
Frequency range U _S	AC 50400 Hz/DC
Power consumption	\leq 12 VA

Interfaces

BMS	
Interface/protocol	RS-485/BMS (internal)
Baud rate	9.6 kbit/s
Cable length	≤ 1200 m
Recommended cable (shielded, shield connected to PE on one side)	min. J-Y(St)Y 2x0.6
Modus	Master/Slave
Connection	terminals A/B
Terminating resistor	120 Ω (0.25 W)
Device address, BMS bus	DIP switch 130
Indication LEDs	ON/FAULT/BMS
Factory setting, device address	1
Ethernet	

Interface/protocol	Ethernet 10-base-T/TCP/IP
Connection	RJ45
Baud rate	10 Mbit/s
Alarm LEDs	Link/Act

Environment/EMC

EMC immunity	EN 61000-6-2
EMC emission	EN 61000-6-4
Classification of climatic conditions acc. to IEC 60721	
Stationary use	3K5
Transport	2K3
Long-time storage	1K4
Operating temperature	-10+55 ℃
Classification of mechanical conditions acc. to IEC 60721	
Stationary use	3M4
Transport	2M2
Long-time storage	1M3

Connection

Connection	screw-type terminals
Connection properties	
rigid/flexible/conductor sizes	0.24/0.22.5 mm ² (AWG 2212)
flexible with ferrule, without/with plastic sleeve	0.252 mm ²

Other

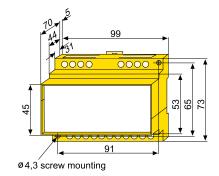
Operating mode	continuous operation
Mounting	any position
Stripping length	8 mm
Tightening torque	0.5 Nm
Degree of protection, internal components (IEC 60529)	IP30
Degree of protection, terminals (IEC 60529)	IP20
Type of enclosure/dimension diagram	X470
Screw mounting	2 x M4
DIN rail mounting acc. to	IEC 60715
Flammability class	UL94 V-0
Operating manual	TGH1375
Weight	≤ 400 g

Ordering information

Supply voltage Us	Туре	Art. No.
AC /DC 85276 V ¹⁾	FTC470XET	B 9506 1001
¹⁾ Absolute value		

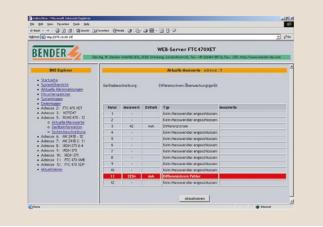
Dimension diagram X470

Dimensions in mm



Visualisation of BMS data

FTC470XET display: currently measured values of a BMS device



FTC470XET display: E-mail function setting

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Data logger Owners Manual FTC070/ET Mounization		Email settings		
Address 1: BM 1000 - Address 2: FTC 470 XET	Function	Value	New value	
 Device information System description 	Send Email:	off		
 Set device perameters 	SMITP server:	217.72.192.157		
 Enterpystem description 	POP1 server:	217.72.192.134		
 Data logger sattings Sat history 	Recipient	bernhard errst@bendende.com		
o Set system logger	2. Recipient:			
 Set BMS nonitoring Translation My own 	Sender:	ftof70xet@web.ce		
language	User (POP3/AUTH LOGIN):	ftcD0wstBweb.do		
 Enter UFL for Hyperlinks 	Passwort (POP3/AUTHLOGIN):	PEDR/GHIEDEWED/CD		
 Set.network 				
o Enall settings	Repeat password:			
 Sand text mail Sat password 	Short massage for SMS			
o Software update	Text	English version	2	
Address 3: 107TD47 Address 3: RCMS 470 - 12	Set alarm address:			
Address 5: MCAS 470 12	Address 1:	No	1 2	
 Address 7: MK 2418 C- 11 	Address 2:	No		
Address 8: IRDH 275 8-4 Address 9: IRDH 575	Address 31	No	-	



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