

FX20-GW-MB00

ARTICLE PROPERTIES

PRODUCT TYPE	FX20 series modular I/O system ModbusTCP/RTU adapter	PRODUCT GROUP	IP20 modular I/O system
DESCRIPTION	Gateway module for Modbus TCP/RTU, 1 x RJ45, 1 x 6 Pos terminal block, max. 32 cascadable modules, 24 V DC, IP20, DIN rail installation, overcurrent /reverse polarity / surge protection	PU	1 pcs
		COUNTRY OF ORIGIN	CN

TECHNICAL DATA

COMMUNICATION PROTOCOL	Modbus TCP/RTU	SUPPLY VOLTAGE (SYSTEM)	24 V DC ($\pm 20\%$)
TRANSMISSION MEDIUM	Twisted pair S-UTP, 100 Ω , Cat. 5 (Modbus TCP) 2 or 3-core twisted pair shielded cable (Modbus RTU)	INPUT CURRENT (TYP.) AT NOMINAL LOAD (24 V)	200 mA
TRANSMISSION RATE	10/100 M bit/s (ModbusTCP) 4800 ... 115200 bps (ModbusRTU)	BACKPLANE POWER SUPPLY VOLTAGE	5 V DC
BUS SEGMENT LENGTH (MAX.)	100 m (Modbus TCP) 30 m (RS485) 10 m (RS232)	BACKPLANE POWER SUPPLY CURRENT (MAX.)	3 A
BUS NODE ADDRESS RANGE	Modbus TCP: 1 ... 254 (Rotary code switches setting) or set by web server Modbus RTU: 0 ... 99 (Rotary code switches setting)	ELECTRICAL ISOLATION	500 V (power supply and bus)
WEB SERVER	The access address is set according to the rotary code switch or configuration software	POWER PROTECTION	Overcurrent protection, reverse polarity protection, surge protection
MAX. NUMBER OF CASCADABLE MODULES	32	PARAMETERS CONFIGURATION METHOD	Configured by PLC, configure through web server
INPUT AND OUTPUT PROCESS MAPPING (MAX.)	512 bytes / 512 bytes	FAULT DIAGNOSIS METHOD	LED, communication message

CONNECTION DATA

WIRE CONNECTION	Plug-in terminal blocks	STRIPPED LENGTHS	8 ... 10 mm 0.315 ... 0.394 in
CROSS SECTION	0.08 mm ² ... 2.5 mm ² AWG 28 ... 14		

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ENVIRONMENTAL REQUIREMENTS

PROTECTION CLASS	IP20	ELECTRICAL FAST TRANSIENT (EFT)	Level A, per IEC 61000-4-4
MOUNTING TYPE	DIN-35 mm rail	ELECTRO-STATIC DISCHARGE (ESD)	Level A, per IEC 61000-4-2
AMBIENT TEMPERATURE	-5 ... +60 °C	SURGE TEST	Level A, per IEC 61000-4-5
STORAGE TEMPERATURE	-25 ... +70 °C	VIBRATION RESISTANCE	4 g, per IEC 60068-2-6
RELATIVE HUMIDITY	95%, non-condensing	SHOCK RESISTANCE	15 g, per IEC 60068-2-27
OPERATING ALTITUDE	0 ... 2000 m / 0 ... 6562 ft	EU ROHS COMPLIANCE STATUS	Yes
POLLUTION DEGREE	2, per IEC 61131-2	MATERIAL COMPLIANCE	Compliant with REACH

GENERAL DATA

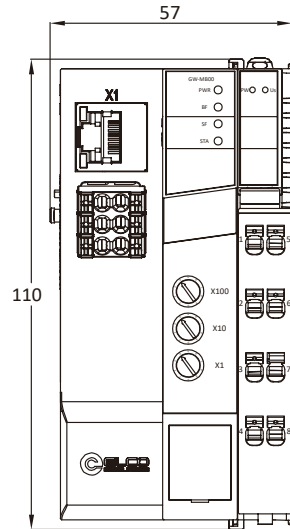
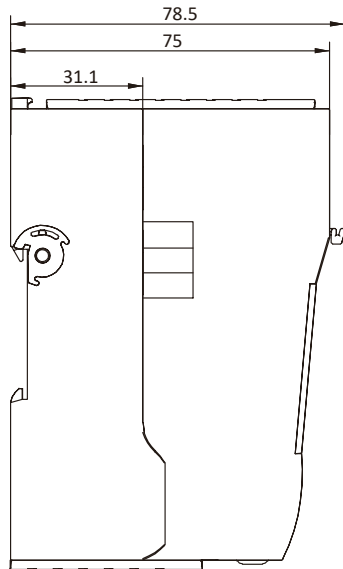
HOUSING MATERIAL	PPE	DIMENSIONS (H X W X D)	110.4 x 57 x 78.5 mm
WEIGHT	230 g	MTTF (25 °C)	111 years
COLOR	Light gray	APPROVALS	CE

APPROVALS



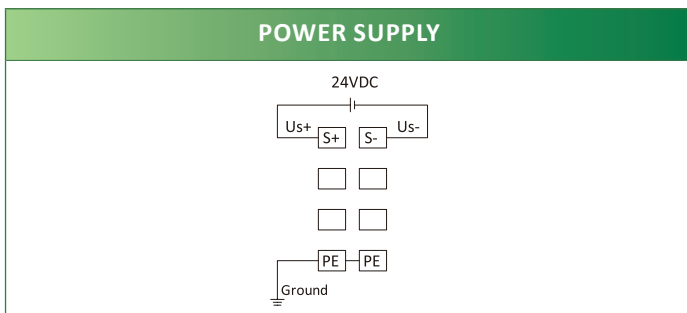
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DIMENSIONS



WIRING DIAGRAM

MODBUS TCP		MODBUS RTU (SERIAL PORT)													
	1 - TD+ : Tranceive Data+	<table border="1"> <thead> <tr> <th>RS485</th> <th></th> <th>RS232</th> </tr> </thead> <tbody> <tr> <td>RS485-A</td> <td>1</td> <td>TxD</td> </tr> <tr> <td>RS485-B</td> <td>2</td> <td>RxD</td> </tr> <tr> <td>GND</td> <td>3</td> <td>GND</td> </tr> </tbody> </table>		RS485		RS232	RS485-A	1	TxD	RS485-B	2	RxD	GND	3	GND
	RS485				RS232										
	RS485-A			1	TxD										
	RS485-B			2	RxD										
GND	3	GND													
2 - TD- : Tranceive Data-															
3 - RD+ : Receive Data+															
6 - TD- : Receive Data-															



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