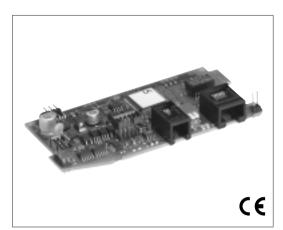


GFX4-ETH

ETHERNET MODBUS/TCP SLAVE MODULE



Main characteristics

- Modbus/TCP slave- Modbus RTU Master
- Network address from rotary switches
- Baud rate 10/100Mbit/s settable via Dip-switch
- Internal installation

PROFILE

The GFX4-ETH module can be installed inside GFX4/GFXTERMO4 products and expands communication by means of the Modbus/TCP protocol.

The module has two communication channels:

• the first channel is a serial port with Modbus RTU protocol, and connects a maximum of four GFX4/GFXTERMO4 devices including the product on which the module is installed, for total of 16 controlled zones (4x4);

• the second channel is a ethernet port with Modbus/TCP slave protocol, and lets you connect to a Master Modbus/TCP.

The node address is assigned by means of the two rotary switches (1...99) on the product that houses the module or by means of a software message.

The network Master (typically a PLC) recognizes the slave node by means of this address.

The slave node recognized by the Master consists of the GFX4/GFXTERMO4 that houses the module plus the

GFX4/GFXTERMO4 products connected to the Modbus serial port.

The expansion can be installed when the above-mentioned products are ordered or at a later date.

You can run the following procedures via the Dip-switches:

- Dip-switch 1

ON = reset communication parameters of GFX-ETH board

- Dip-switch 2

Select baud rate

OFF = 100Mbit/s (default)

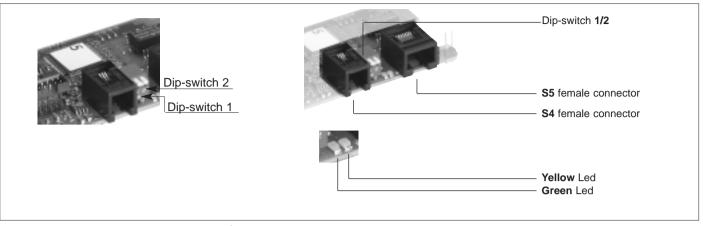
ON = 10Mbit/s

TECHNICAL DATA

ETHERNET port					
Protocol	Modbus/TCP (slave)				
Function	Connects GFX4/GFXTERMO4 to a				
	Modbus/TCP Master device				
Baud rate	10/100 Mbit/s settable via dip-switch				
Connector	RJ45 CAT5 10/100 BaseT conforming				
Address	HW: ID Modbus				
	SW: MAC Address, IP Address				
I/O dimensions	5 words for zone				
Msg. supported	01, 02, 03, 04, 05, 06, 0f, 10				
Diagnostics	Error counter to serial link				
GREEN led					
ON	Packet activity				
YELLOW led					
ON	Link integrity				
Modbus port					
Protocol	ModBus RTU (master) RS485 serial				
Function	Connects GFX4/GFXTERMO4 to ModBus RTU network				
Baud rate	19200				
Connector	RJ10 4-4				
General characteristics					
Dimensions	106x56x17mm (H x L x D)				
Installation	Inside module				
Weight	35g				
Power supply	+24V, 3VA max. taken directly from GFX4/GFXTERMO4				
	module				
Working/storage					
temperature	040°C/-2070°C				
Relative humidity	2085% RH non-condensing				
Ambient conditions					
_of use	Internal use, altitude up to 2000m				
Installation	Inside module				
	(see "INSTRUCTION AND WARNING" manual)				
Approvals and					
certifications	See GFX4/GFXTERMO4 modules				

ELECTRICAL CONNECTIONS

Connectors / LEDs



Connector S4 RJ10 4-4 pin	Nr. Pin	Name	Decription	Note		
4 3 2 1	1 2 3 4	GND1 (**) Rx/Tx+ Rx/Tx- +V (reserved)	- Data reception/transmission (A) Data reception/transmission (B) -	(**) Connect the GND signal among Modbus devices with a line distance > 100 m.		
Cable type: flat telephone cable for fin 4-4 conductor 28AWG						

Connector S5 RJ45	Nr. Pin	Name	Decription	Note		
8	1	TX+	Data transmission +			
	2	TX-	Data transmission -			
	3	RX+	Data reception +			
	4	n.c.				
	5	n.c.				
	6	RX-	Data reception -			
	7	n.c.				
	8	n.c.				
Cable type: Use standard category 5 cable according to TIA/EIA-568B						

ORDER CODE

GFX4 ETH

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