

Main characteristics

- DeviceNet Slave – Modbus RTU Master
- Network address from rotary switches
- Baud Rate: 150, 250, 500 kBit/s
- Internal installation

PROFILE

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

The module has two communication channels:

- the first channel is a serial port with Modbus RTU protocol, and lets you connect a maximum of four GFX4/GFXTERMO4 products including the product on which the module is installed, for a total of sixteen controlled zones (4x4);
- the second channel is a serial port with DeviceNet slave protocol, and lets you connect to a DeviceNet Master.

The node address is assigned by means of the two rotary switches (1...63) on the product that houses the module.

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.

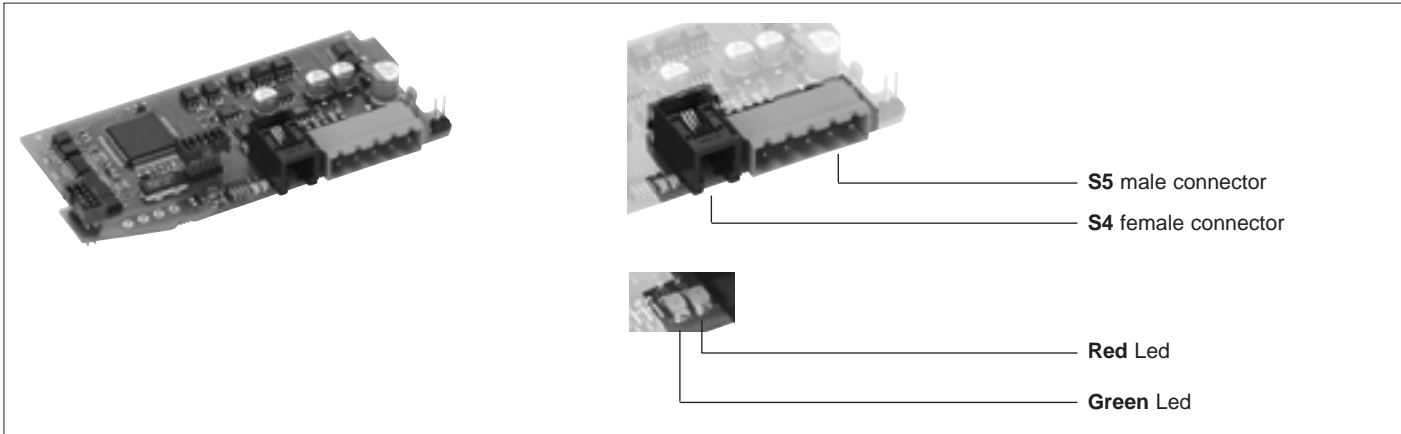
The expansion can be installed when the above-mentioned products are ordered or at a later date.

TECHNICAL DATA

DeviceNet port	
Protocol	DeviceNet server, 8 bits Class ID / 8 bits Instance ID
Function	Connects GFX4/GFXTERMO4 to a DeviceNet Master device
Baud rate	125, 250, 500 kbits/s selection HW: by means of Rotary Switch sequence SW: by means of software message
Address	HW: 1...63 set with rotary switches on the GFX4/GFXTERMO4
Msg. supported	Predefined Master/Slave connection set Group 2 only server
Explicit message fragmentation support	Yes
I/O message	Polled I/O (4 words for zone)
Parameter Class Support	Yes
File EDS	GFX4V11.eds
Diagnostics	
Red LED	
ON	Communication error
OFF	No error
Green LED	
Flashing	Connection timeout
ON	Explicit, I/O connection under way
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, 1VA max. taken directly from GFX4/GFXTERMO4 module
Working/storage temperature	0...40°C/-20...70°C
Relative humidity	20...85% 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	Description	Note
	1	GND1 (**)	-	(**) Connect the GND signal among Modbus devices with a line distance > 100 m.
	2	Rx/Tx+	Data reception/transmission (A)	
	3	Rx/Tx-	Data reception/transmission (B)	
	4	+V (reserved)	-	

Cable type: flat telephone cable for fin 4-4 conductor 28AWG

Connector S5 D-SUB 9 pins male	Nr. Pin	Name	Description	Note
	1	V-	Negative power supply	Connect a 120Ω / 1/4W resistance between the "CAN_L" and "CAN_H" signals at each end of the DeviceNet network.
	2	CAN_L	Low signal	
	3	SHIELD	Shield	
	4	CAN_H	high signal	
	5	V+	Positive power supply	

Cable type: Shielded 2 pairs 22/24AWG conforming to DeviceNet.

ORDER CODE

GFX4

DEV

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.

GEFRAN

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