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Open

Close

Presentation

In order to communicate with an intelligent environment, Twido compact and modular programmable controllers offer an RS 485 serial communication port on the module as well as an optional type RS 485 or RS 232 link.

These two ports allow Twido compact and modular controllers to use four communication protocols: Programming, Modbus, ASCII, and Remote link.

Description

Compact base controllers have the following on the front panel:

- 1 An RS 485 serial port, with mini-DIN type connector for connection to the programming terminal.
- 2 A slot for fitting a 2nd optional port (RS 485/RS 232) using TWD NAC ●●● adapters.

Modular base controllers have the following on the front panel:

- 1 An RS 485 serial port, with mini-DIN type connector for connection to the programming terminal.

The slot for fitting a 2nd optional port (RS 485/RS 232) using adapters TWD NAC ●●● is located behind the removable cover 2 of a TWD NOZ ●●●● interface module 3 or a TWD XCP ODM display module 4.

The interface and display modules connect to the left-hand side of modular base controllers.

Twido controller communication ports

	Serial port	Optional port (2 nd port)		
	RS 485 mini-DIN	RS 485 mini-DIN	RS 232 mini-DIN	RS 485 screw terminal block
Compact base controllers	All compact base controllers TWD LCAA ●●●●	TWD NAC 485 D (1)	TWD NAC 232 D (2)	TWD NAC 485 T (1)
Modular base controllers	All modular base controllers TWD LMDA ●●●●	TWD NOZ 485 D (1) or TWD XCP ODM + TWD NAC 485D	TWD NOZ 232 D (2) or TWD XCP ODM + TWD NAC 232D	TWD NOZ 485 T (1) or TWD XCP ODM + TWD NAC 485T

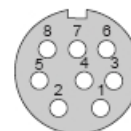
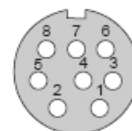
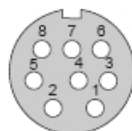
(1) With max. cable length: 200 m.

(2) With max. cable length: 10 m.

If the RS 232 physical layer is used for a length greater than 10 metres, use the RS 485 physical layer and an RS 485/RS 232 conversion module reference XGS Z24.

Connection

Serial link	Optional link		
RS 485	RS 485D	RS 232 D	RS 485T



TWD LCAA ●●●● TWD LMDA ●●●●	TWD NAC 485D TWD NOZ 485D	TWD NAC 232D TWD NOZ 232D	TWD NAC 485T TWD NOZ 485T
1 A +	A +	RTS	A A +
2 B -	B -	DTR	B B -
3 NPC	NC	TXD	SG 0 V
4 /DE	NC	RXD	
5 /DPT	NC	DSR	
6 NPC	NC	0 V	
7 0 V	0 V	0 V	
8 5 V (180 mA)	5 V (180 mA)	5 V (180 mA)	

NC: not connected

NPC: do not connect

/DPT: 1 = master; if not connected, the PUNIT protocol is used for communication with PCs (at state 1, 19200 bauds, with no parity); if connected to 0 V, the communication parameters are those configured by the TwidoSoft software.