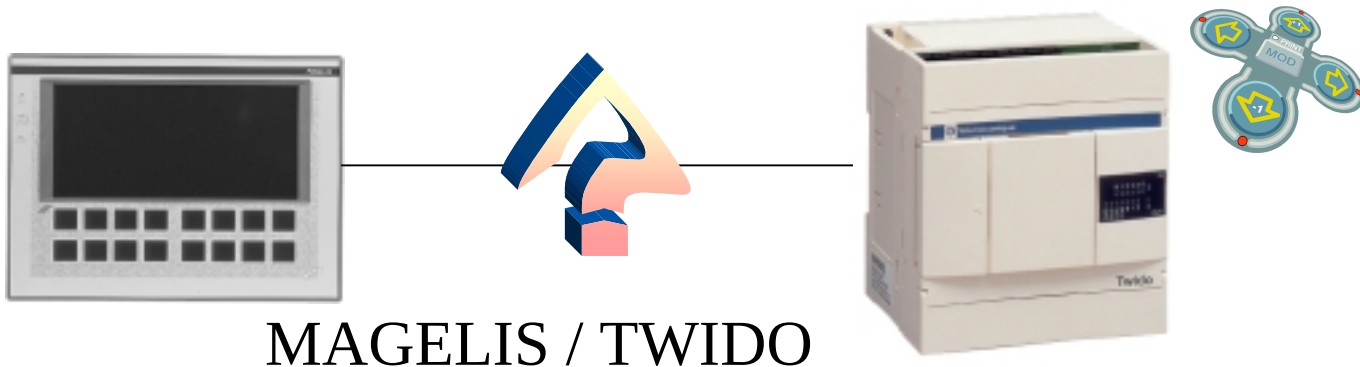




- ▶ 1. Communications.....
- ▶ 2. TWiDO Modular.....
- ▶ 3. TWiDO Compact Port 1.....
- ▶ 4. TWiDO Compact Port 2.....
- ▶ 5. TWiDO / COMETE.....

1

2

3

4

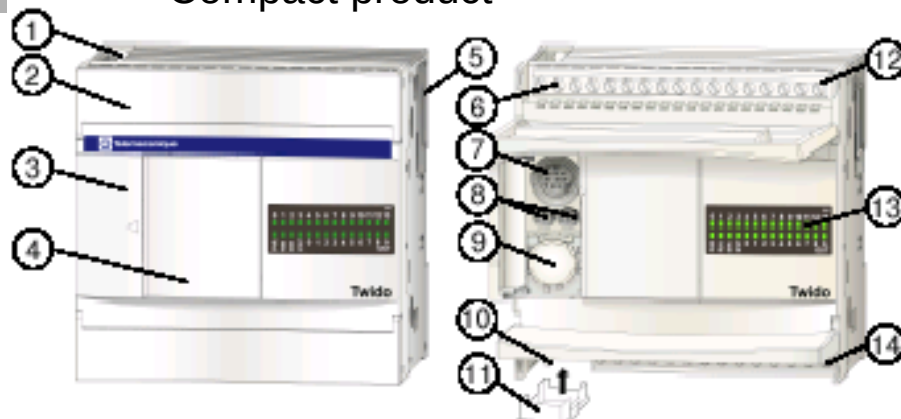
5



20/06/2002

Communication

Compact product



Label	Description
1	Mounting hole
2	Terminal cover
3	Hinged lid
4	Removable cover to operator display connector
5	Expansion connector - only on the TWDLCAA24DRF
6	Sensor power terminals
7	Serial port 1
8	Analog potentiometers - TWDLCAA10DRF and TWDLCAA16DRF have one
9	Serial port 2 connector - TWDLCAA10DRF does not have one
10	100 to 240 VAC power supply terminals
11	Cartridge connector - located on the bottom of the controller
12	Input terminals
13	LEDs
14	Output terminals

1

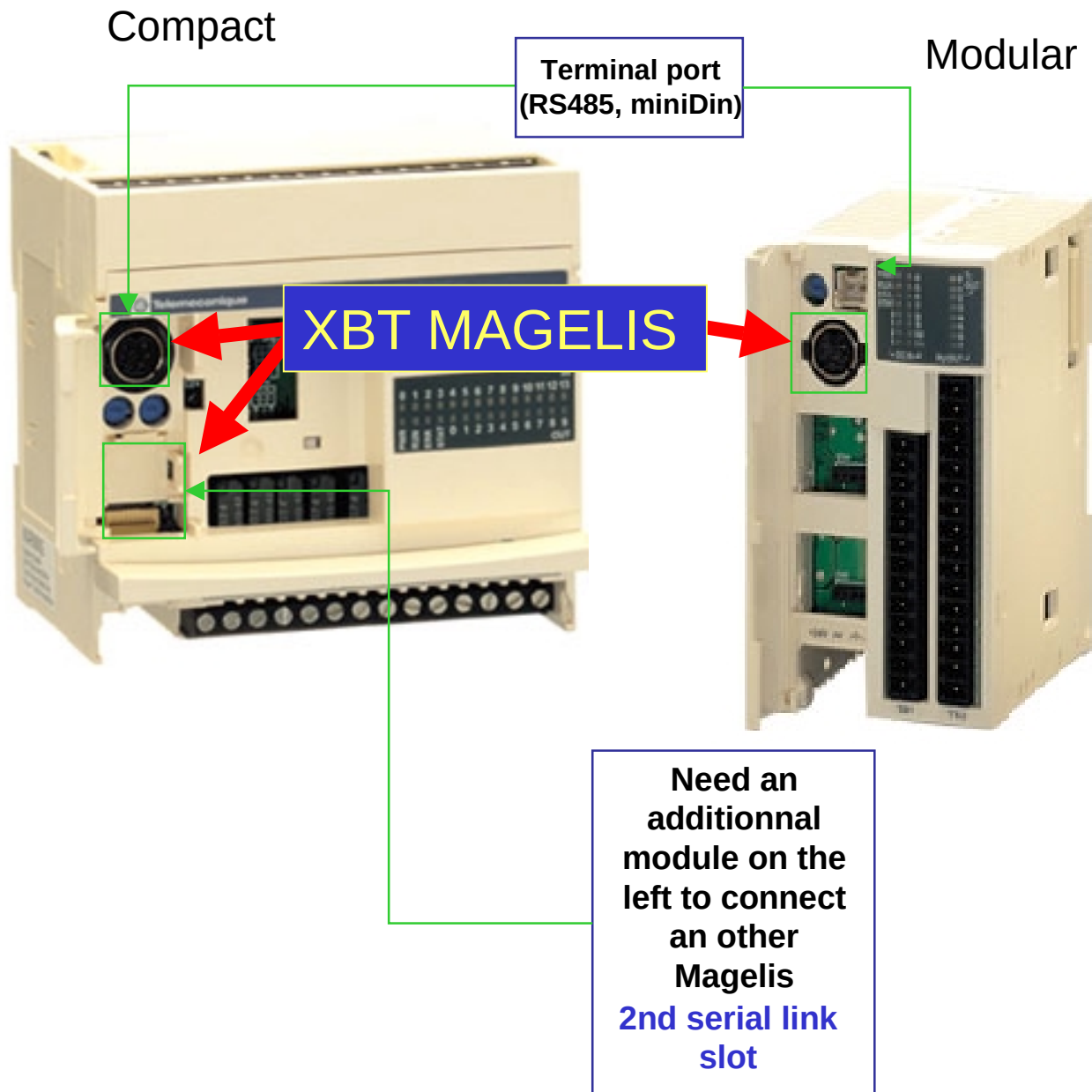
Communication Function Specifications

Communication Port	Port 1 (RS485)	Port 2 (RS232) Communication Adapter: TWDNAC232D	Port 2 (RS485) Communication Adapters: TWDNAC485D TWDNAC485T
Standards	RS485	RS232	RS485
Max baud rate	PC link: 19,200 bps Remote link: 38,400 bps	19,200 bps	PC link: 19,200 bps Remote link: 38,400 bps
Maintenance communication (PC link)	Possible	Possible	Possible
ASCII communication	Possible	Possible	Possible
Remote communication	7 possible	Not possible	7 Possible
Maximum cable length	200 m, twisted-pair shielded cable	200 m, twisted-pair shielded cable	200 m, twisted-pair shielded cable
Isolation between internal circuit and communication port	Not isolated	Not isolated	Not isolated

20/06/2002

V1.1

MAGELIS et TWIDO
MAGELIS and TWIDO



1

Communication protocols available:

Modbus RTU (Slave/Master)

ASCII

K-NET (Remote I/O)

For Magelis

20/06/2002



Compact / Modular:

Communication port 1:
Mini-DIN RS485



- 1 - D(B)
- 2 - D(A)
- 3 - not connected / non connecté
- 4 - /DE
- 5 - DPT (1 = master/maître)
- 6 - not connected / non connecté
- 7 - OV
- 8 - +5V (180 mA max.)

1

INL/DPT : not connected / non connecté

- The PUNIT communication protocol is used for the communication with the PC, the communication parameters are:

@ =1 BaudRate = 19200 bds No parity

- Le protocole PUNIT est utilisé pour la communication avec le PC les paramètres sont les suivants :

@ =1 BaudRate = 19200 bds No parity

INL/DPT : connected to OV / connecté au 0V

- The communication parameters are configured with the software TWIDO Soft

- Les paramètres de communication sont ceux configurés par le logiciel TWIDO Soft



Compact :

Communication port 2:

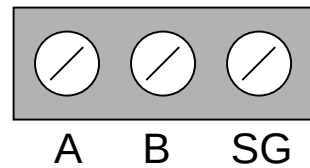
Mini-DIN RS485 (TWDNAC485D)



- 1 - D(B)
- 2 - D(A)
- 3 - not connected / non connecté
- 4 - /DE
- 5 - DPT (1 = master/maître)
- 6 - not connected / non connecté
- 7 - OV
- 8 - +5V

Communication port 2:

Term.screws (TWDNAC485T)



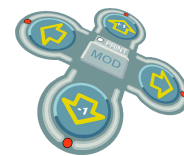
1

Communication port 2:

Mini-DIN RS232 (TWDNAC232D)

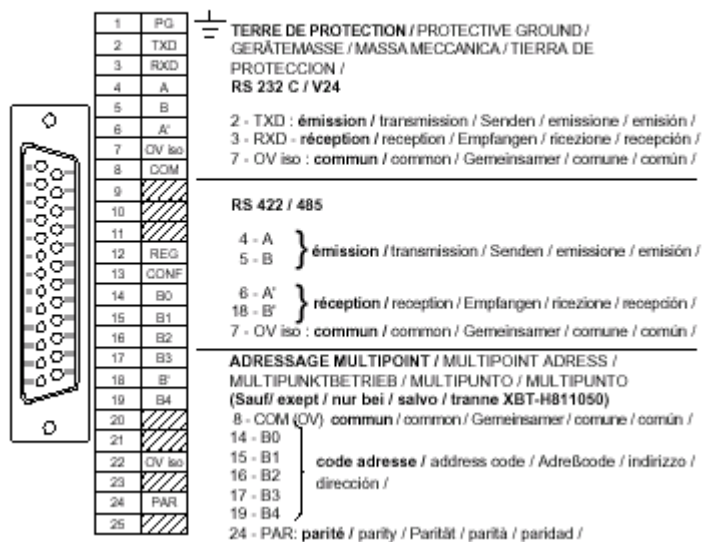


- 1 - RTS)
- 2 - DTR
- 3 - TxD
- 4 - RxD
- 5 - DSR
- 6 - GnD
- 7 - GnD
- 8 - +5V

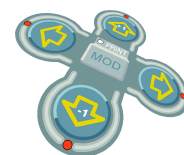


Magelis : communication port

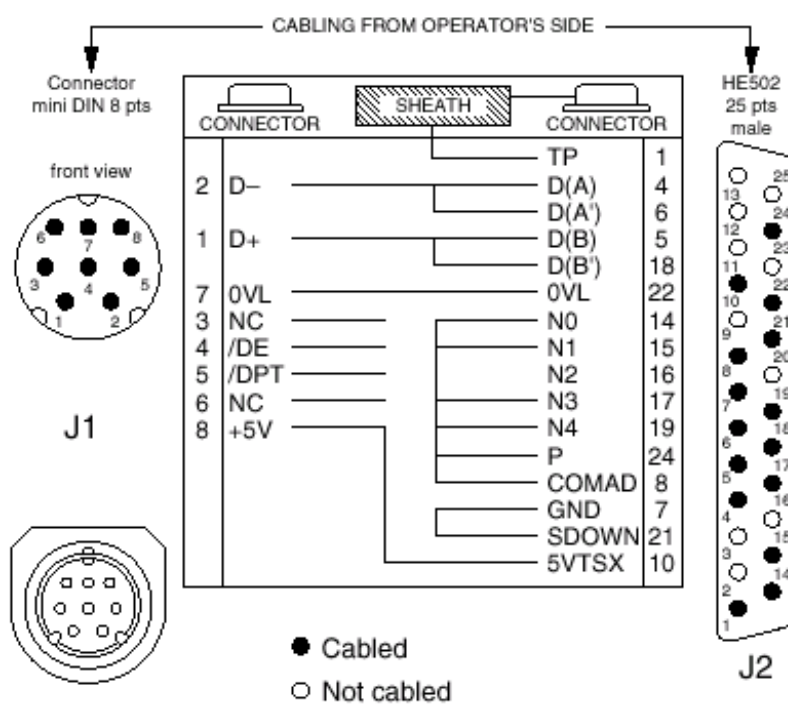
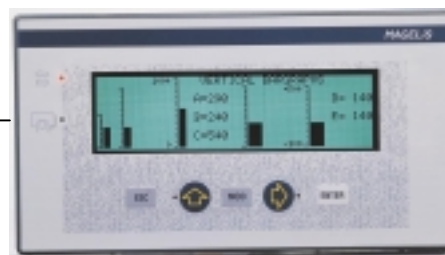
2 - LIAISON SERIE / SERIAL COMMUNICATION / SERIELLE SCHNITTSTELLE /
COMUNICAZIONE SERIALE / UNION SERIE



1



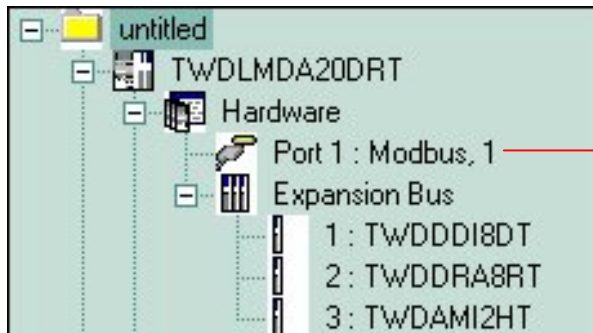
XBTZ968 > V1.1



2



Twido communication parameters:



Controller Communications Setup

Port 1

Protocol

Type: Modbus

Address: 1

Parameters

Baud Rate: 19200

Data Bits: 8

Parity: None

Stop Bits: 1

End of Frame: 10

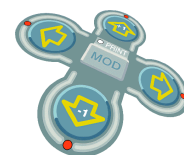
Response Timeout: 10 x 100 ms

Frame Timeout: 4 ms

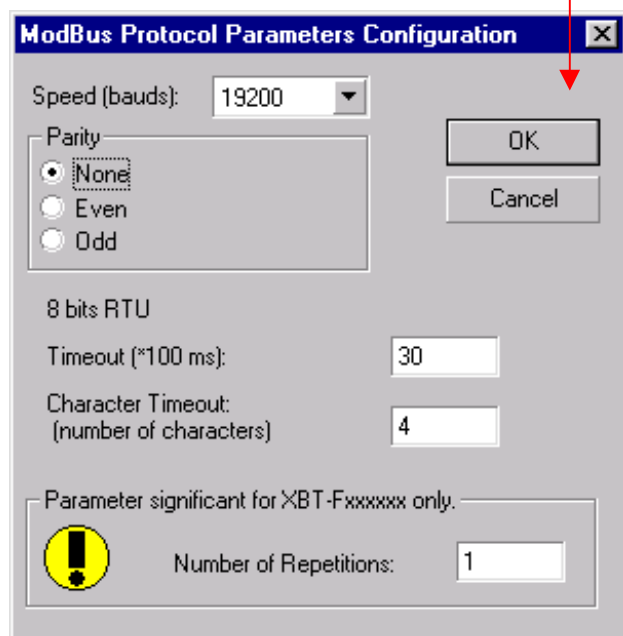
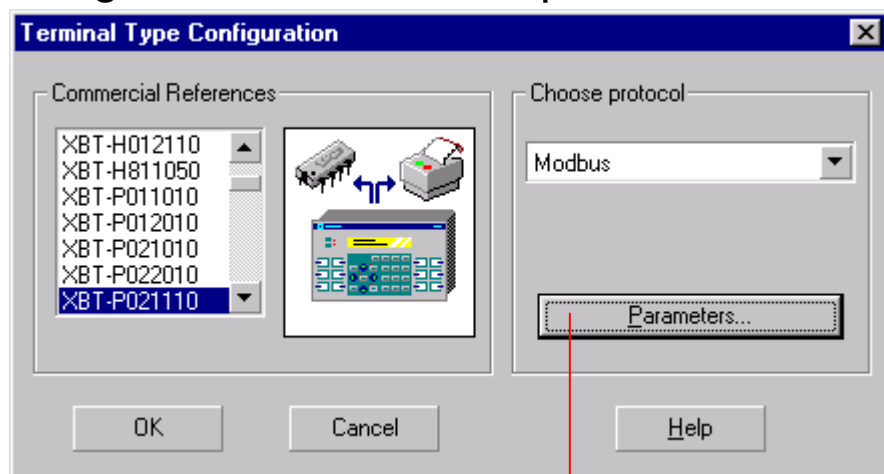
OK

Cancel

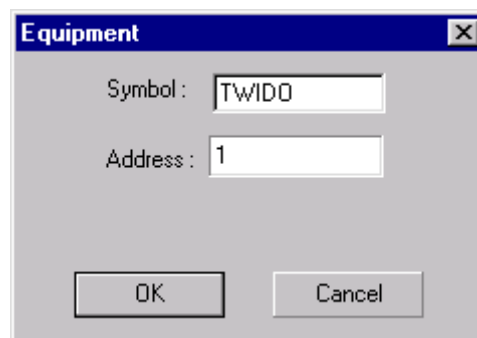
Help



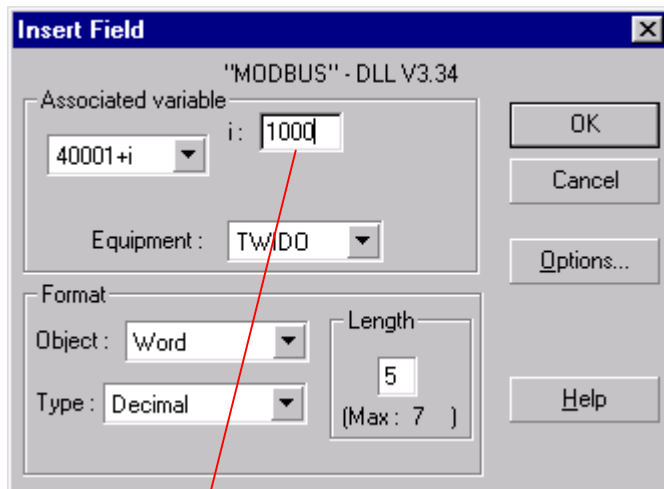
Magelis communication parameters:



+

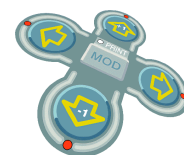


2



2

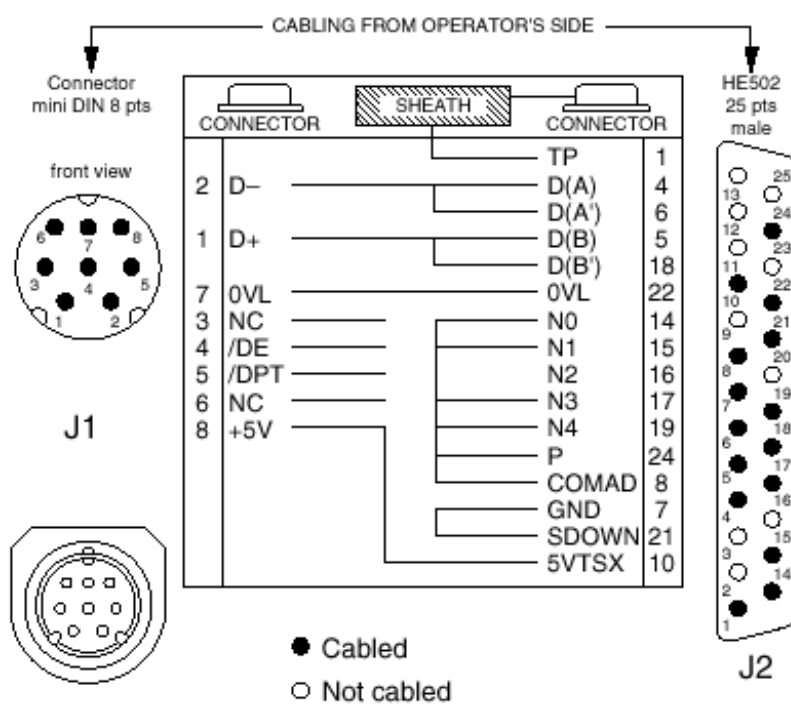
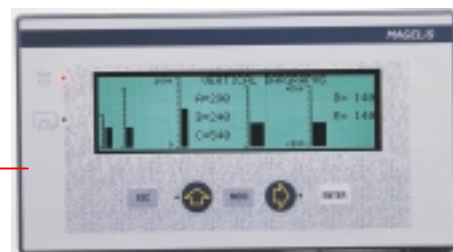
- Check if the memory location is declared (used) in the application program.
- Vérifier si l'allocation mémoire est déclarée (utilisée) dans le programme automate.



PORT 1:



XBTZ968 > V1.1

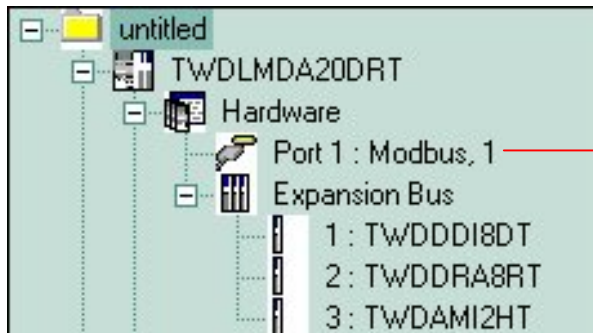


3

Twido Compact and Magelis:



Twido communication parameters:



Controller Communications Setup

Port 1

Protocol

Type: Modbus

Address: 1

Parameters

Baud Rate: 19200

Data Bits: 8

Parity: None

Stop Bits: 1

End of Frame: 10

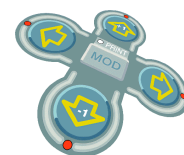
Response Timeout: 10 x 100 ms

Frame Timeout: 4 ms

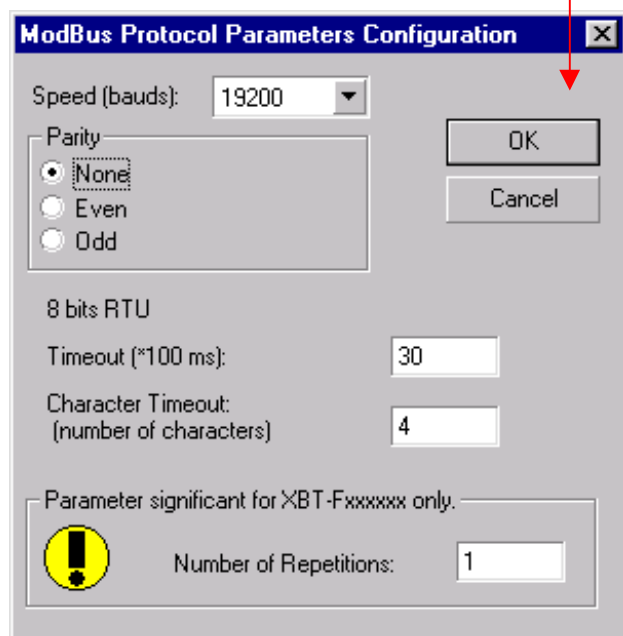
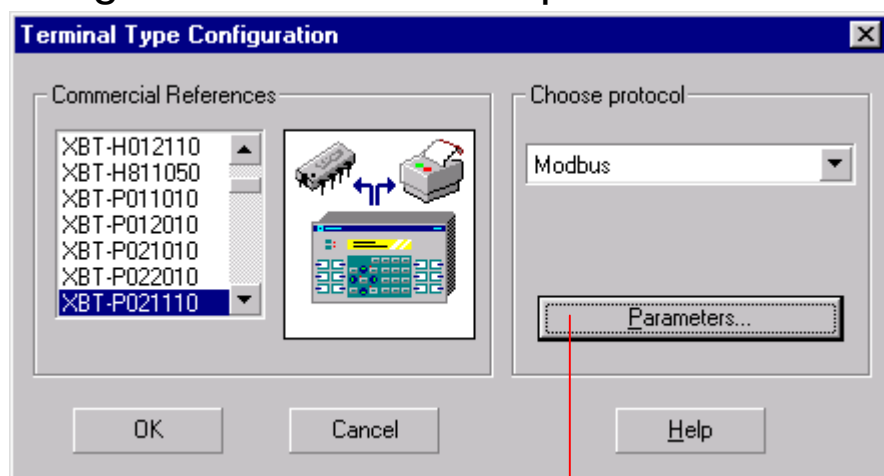
OK

Cancel

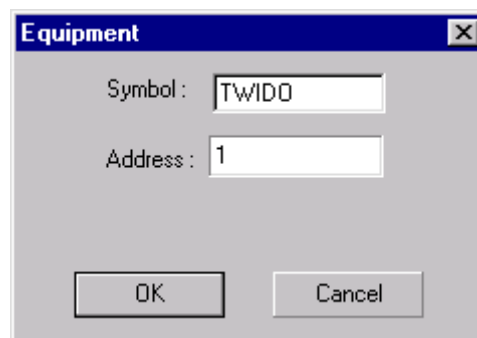
Help

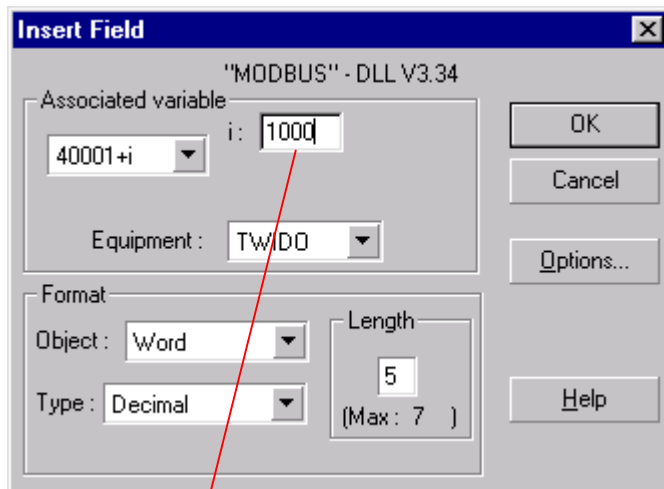


Magelis communication parameters:



+

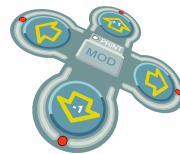




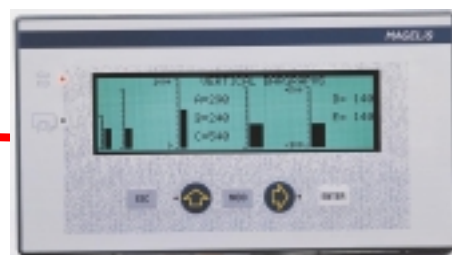
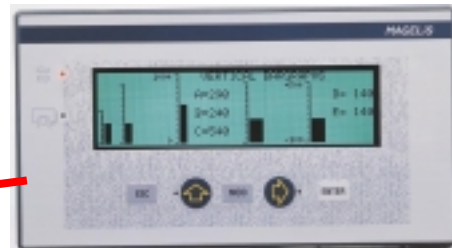
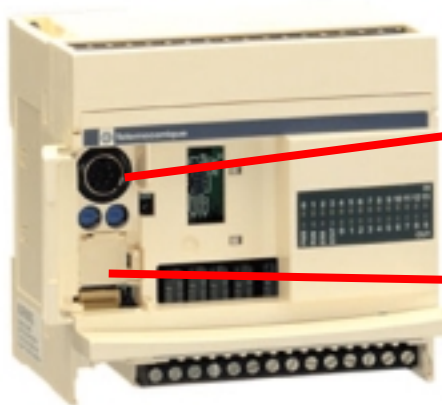
- Check if the memory location is declared (used) in the application program.
- Vérifier si l'allocation mémoire est déclarée (utilisée) dans le programme automate.

3

TWiDO Compact and Magelis:



PORT 2:

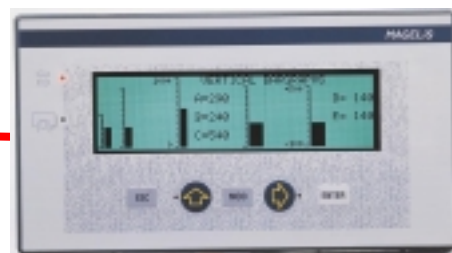


PORT 2: option TWDNAC485D

4



XBTZ968 > V1.1



20/06/2002

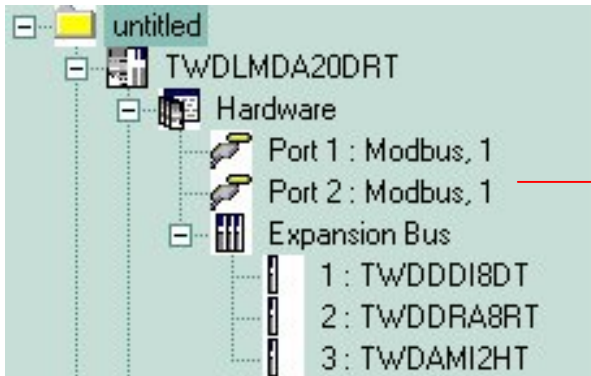
V1.1

MAGELIS et TWIDO
MAGELIS and TWIDO



PORT 2: option TWDNAC485D

Twido communication parameters:



Controller Communications Setup

Port 1 | **Port 2**

Protocol

Type: **Modbus**

Address: **1**

Parameters

Baud Rate: **19200**

Data Bits: **8**

Parity: **None**

Stop Bits: **1**

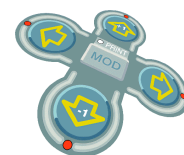
End of Frame: **10**

Response Timeout: **10** x 100 ms

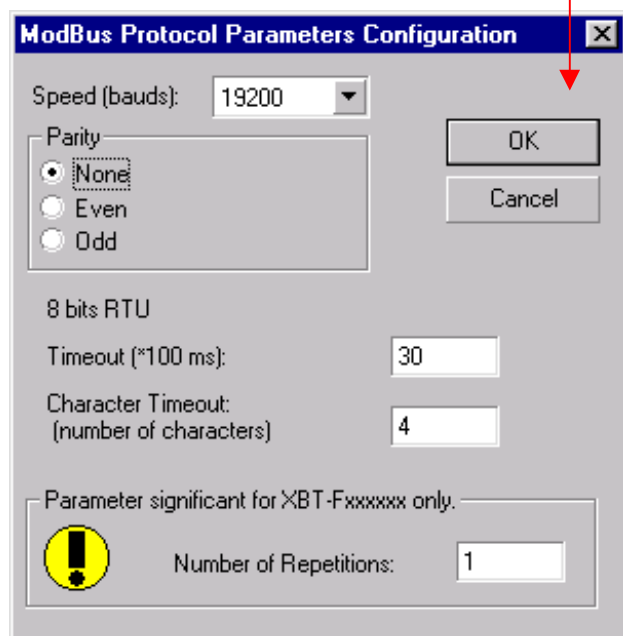
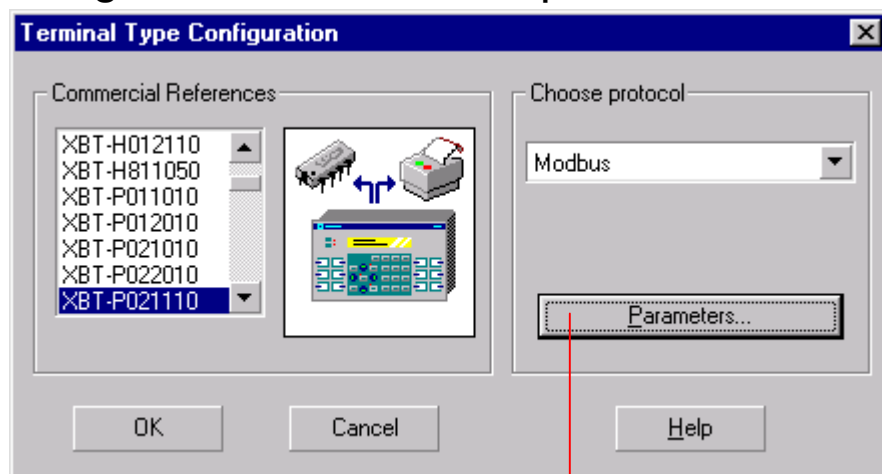
Frame Timeout: **10** ms

OK
Cancel
Help

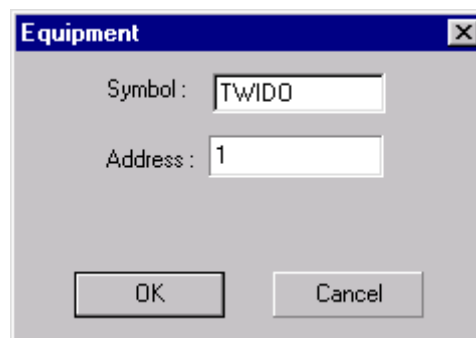
4

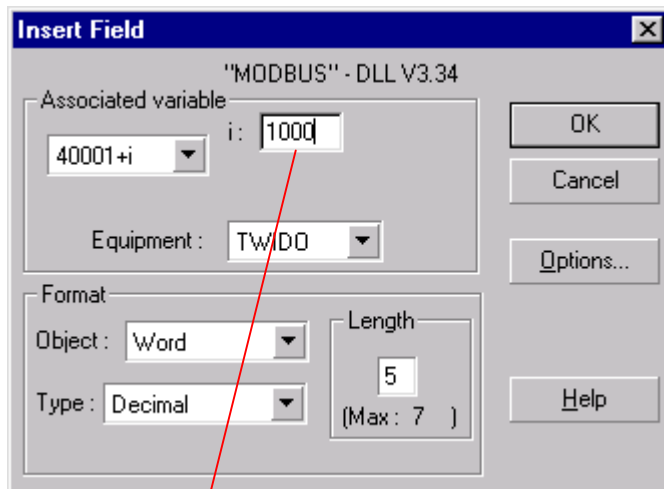


Magelis communication parameters:



+

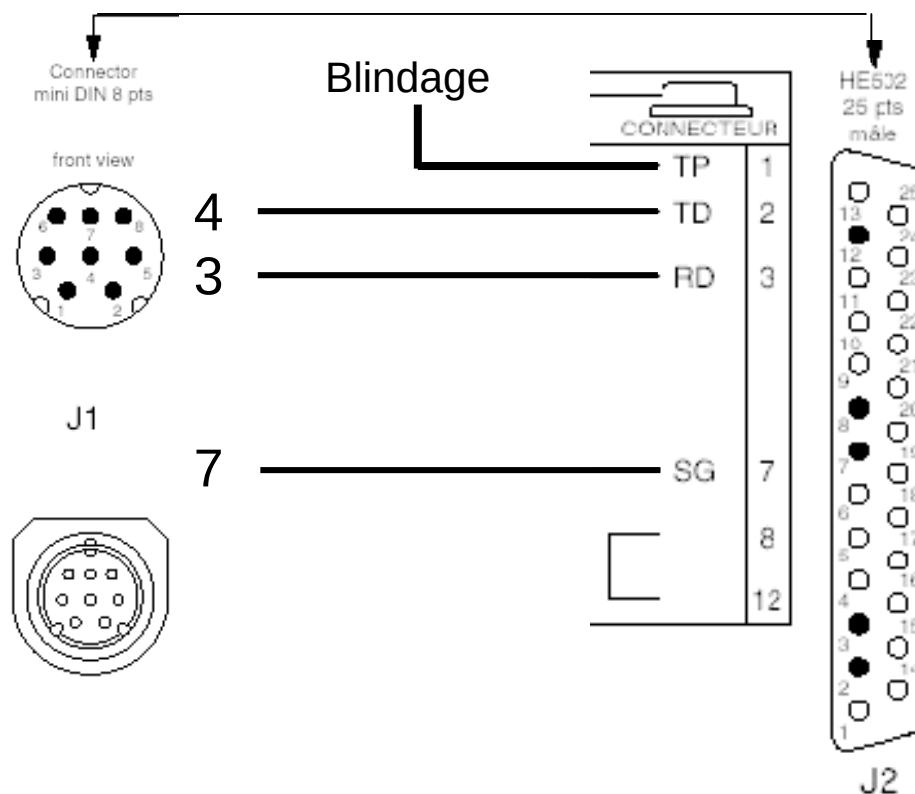
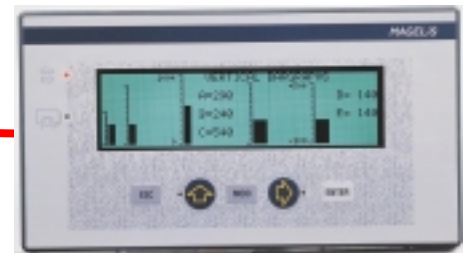
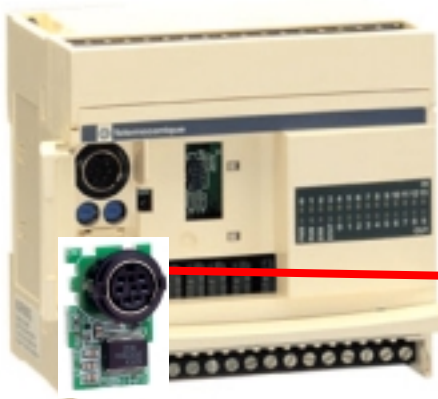




- Check if the memory location is declared (used) in the application program.
- Vérifier si l'allocation mémoire est déclarée (utilisée) dans le programme automate.



PORT 2: option TWDNAC232D

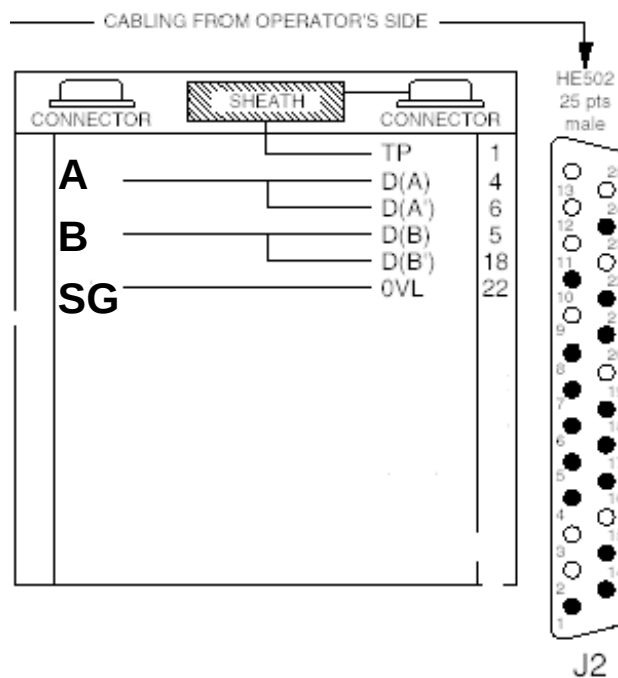
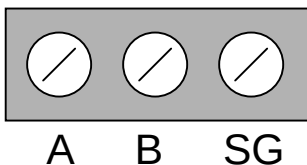
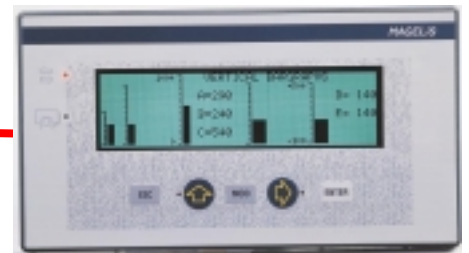


4

- For the communication parameters use the configuration information used for the TWDNAC485D option
- Pour les paramètres de communication utiliser les informations fournies pour l'option TWDNAC485D



PORT 2: option TWDNAC485T



4

- For the communication parameters use the configuration information used for the TWDNAC485D option
- Pour les paramètres de communication utiliser les informations fournies pour l'option TWDNAC485D



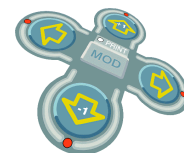
XBT-N200



XBT-N400

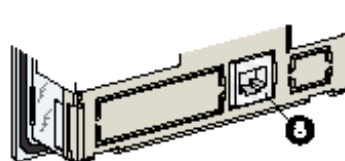
XBT-N401





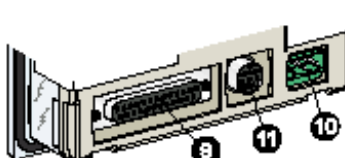
- 8 - Liaison série + alimentation RJ45.**
 RJ45 serial link + power supply.
 Serielle Schnittstelle + Stromanschluss
 RJ45.
 Interfaccia seriale + alimentazione RJ45.
 Enlace serie + alimentación RJ45.

XBT-N200 / XBT-N400



- 9 - Liaison série SubD25.**
 SUB-D 25 serial link.
 Serielle Schnittstelle SubD25.
 Interfaccia seriale SubD25.
 Enlace serie SubD25.

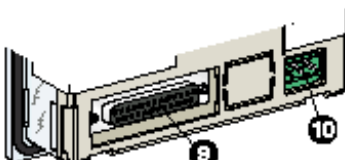
XBT-N401



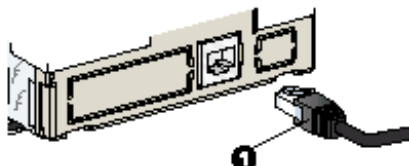
- 10 - Bornier 3 fils pour alimentation 24VDC.**
 3-wire terminal for 24 V DC power supply.
 3-Draht-Klemme für 24V
 Gleichstromanschluss.
 Morsettiera a 3 fili per alimentazione
 24VDC.
 Bornero de 3 hilos para alimentación
 24 V CC.

- 11 - Connecteur MiniDIN pour imprimante
 (pour utilisation future).**
 MiniDIN connector for printer
 (for future use).
 MiniDIN-Druckeranschluss
 (zum späteren Gebrauch).
 Connettore MiniDIN per stampante
 (per uso futuro).
 Conector MiniDIN para impresora
 (para uso futuro).

XBT-NU400

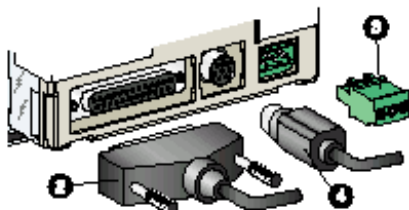


XBT-N200 / XBT-N400



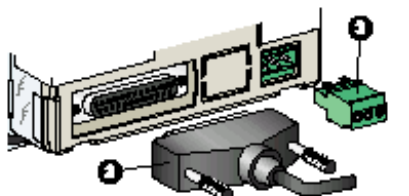
- 1 - Connecteur RJ45.** **2 - Liaison série SubD25.**
 RJ45 connector.
 Anschluss RJ45.
 Connettore RJ45.
 Conector RJ45.
 SUB-D 25 serial link.
 Serielle Schnittstelle
 SubD25.
 Interfaccia seriale
 SubD25.
 Enlace serie SubD25.

XBT-N401

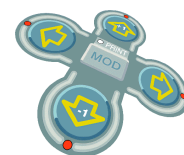


- 3 - Bornier 3 fils pour alimentation 24VDC.**
 3-wire terminal for 24 V DC power supply.
 3-Draht-Klemme für 24V Gleichstromanschluss.
 Morsettiera a 3 fili per alimentazione 24VDC.
 Bornero de 3 hilos para alimentación 24 V CC.

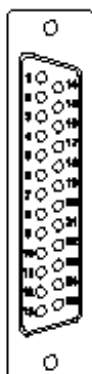
XBT-NU400



- 4 - Connecteur MiniDIN pour imprimante
 (pour utilisation future).**
 MiniDIN connector for printer
 (for future use).
 MiniDIN-Druckeranschluss
 (für späteren Gebrauch).
 Connettore MiniDIN per stampante
 (per uso futuro).
 Conector MiniDIN para impresora
 (para uso futuro).



Liaison série / Serial link / Serielle Schnittstelle
/ Interfaccia seriale / Enlace serie



1	
2	TXD
3	RXD
4	A
5	B
6	
7	0V iso
8	COM
9	
10	
11	
12	RSD
13	CONP
14	B0
15	B1
16	B2
17	B3
18	
19	B4
20	
21	
22	0V iso
23	
24	PAR
25	

XBT-N401 / XBT-NU400

Terre de protection / Protective earth ground /
Gerätemasse / Massa a terra protettiva / Tierra de protección

RS 232 C / V24

2 - TXD : **émission / send / Senden / emissione / emisión**
3 - RXD : **réception / receive / Empfangen / ricezione / recepción**
7 - 0V iso : **commun / common / Gemeinsam / comune / común**

RS 485

4 - A } **émission / send / Senden / emissione / emisión**
5 - B } **réception / receive / Empfangen / ricezione / recepción**

7 - 0V iso : **commun / common / Gemeinsam / comune / común**

ADRESSAGE MULTIPOINT / MULTIPOINT ADDRESSING /
MULTIPUNKTBETRIEB / MULTIPUNTO / DIRECCIONAMENTO MULTIPUNTO

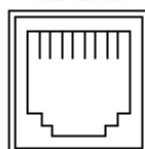
8 - COM (0V) **commun / common / gemeinsam / comune / común**
14 - B0
15 - B1
16 - B2
17 - B3
19 - B4
24 - PAR : **parité / parity / Parität / parità / paridad**

XBT-N200 / XBT-N400

- **Connecteur RJ45 (liaison série + alimentation) / RJ45 connector (serial link + power supply) / Anschluss RJ45 (serielle Schnittstelle + Stromanschluss) / Connettore RJ45 (interfaccia seriale + alimentazione) / Conector RJ45 (enlace serie + alimentación)**



12345678



1	B1
2	TXD
3	RXD
4	B
5	A
6	B2
7	+5V
8	GND

RS 232 C

2 - TXD : **émission / send / Senden / emissione / emisión**
3 - RXD : **réception / receive / Empfangen / ricezione / recepción**

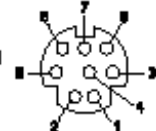
RS 485

4 - B } **émission / send / Senden / emissione / emisión**
5 - A } **réception / receive / Empfangen / ricezione / recepción**

Fonctionnement non garanti avec cordon > 5 m (16,404 feet) / Operation cannot be guaranteed with cables > 5 m (16,404 feet) /
Funktion mit einem Band > 5 m (16,404 Fuß) nicht sichergestellt / Funzionamento non garantito con filo > 5 m (16,404 piedi) /
Funcionamiento no garantizado con cables > 5 m (16,404 pies)

XBT-N401

- **Connecteur MiniDin (pour utilisation future).**
MiniDin connector (for future use).
MiniDin-Anschluss (für späteren Gebrauch).
Connettore MiniDin (per uso futuro).
Conector MiniDin (para uso futuro).



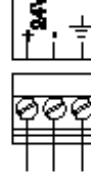
1	
2	TXD
3	RXD
4	UTR
5	OMD
6	OMR
7	OMT
8	OTR

RS 232 C

2 - TXD : **émission / send /**
Senden / emissione / emisión
3 - RXD : **réception / receive /**
Empfangen / ricezione / recepción

XBT-N401 / XBT-NU400

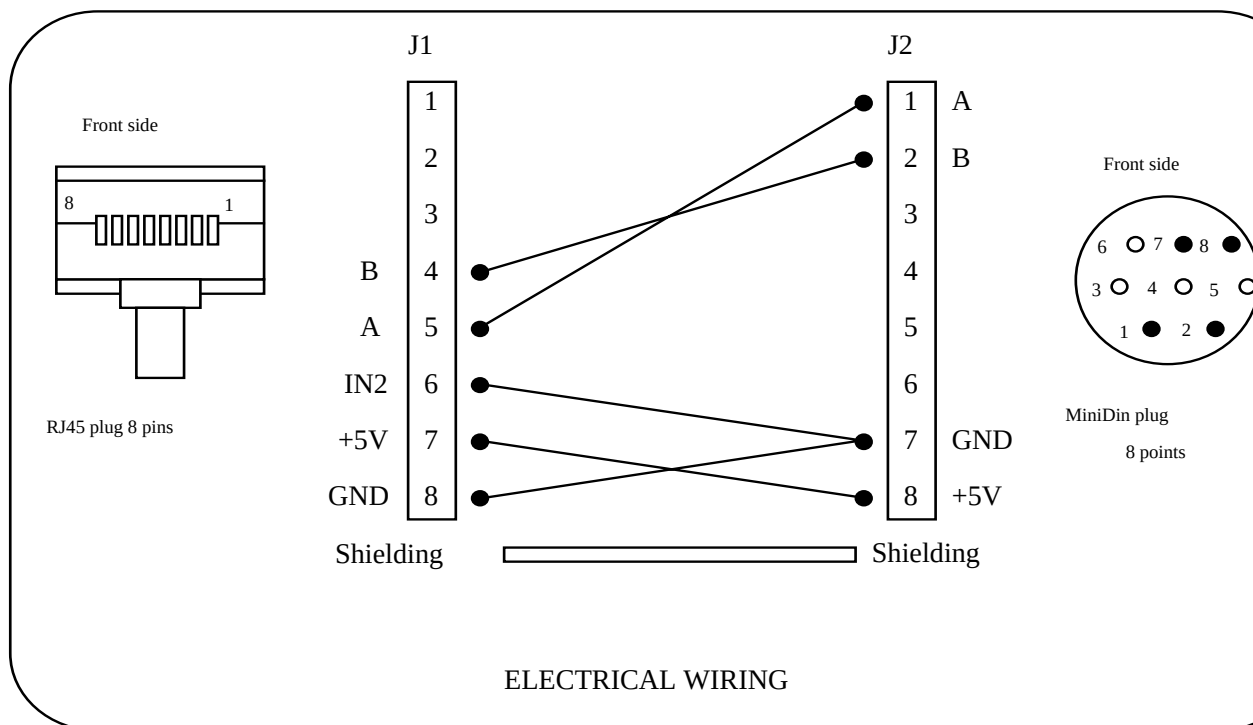
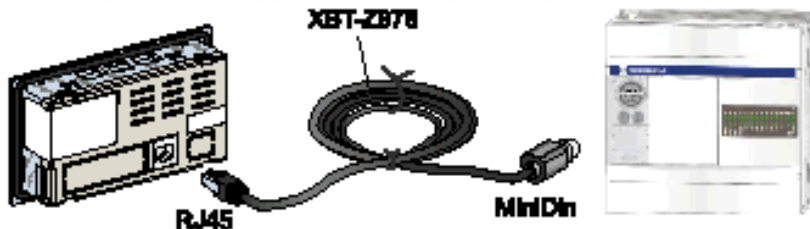
- **ALIMENTATION 24V DC.**
24 V DC POWER SUPPLY.
STROMVERSORGUNG.
ALIMENTAZIONE 24 VDC.
ALIMENTACIÓN 24 V CC.



TWiDO / COMETE



XBT-N200 / XBT-N400 + Twido / Micro / Premium / Nano



5

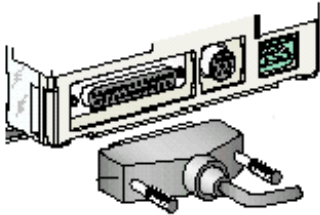


XBT-N401

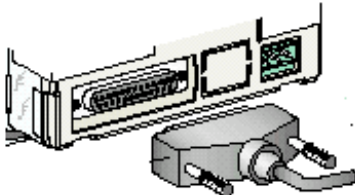
XBTZ968 >V1.1



XBT-N401



XBT-NU400





- With XBTL1000 >= V4.2 select IEC11-31 to have the communication parameters used by default in the TWIDO Soft
- avec XBTL1000 >=V4.2 selectionner IEC11-31 pour avoir les paramètres de communication utilisés par défaut avec le TWIDO Soft

