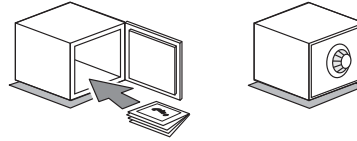


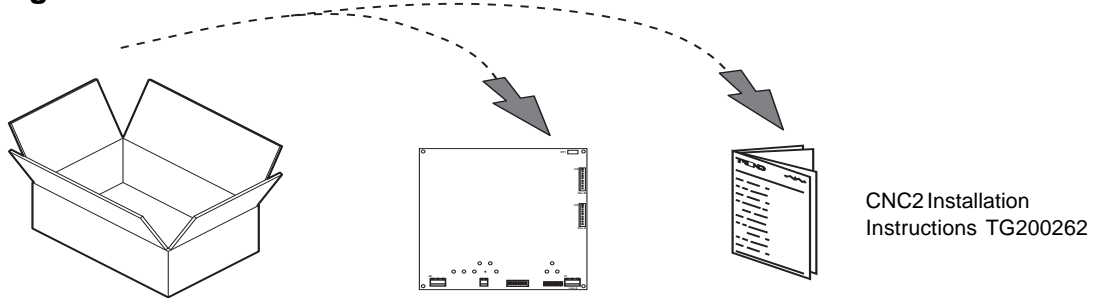
Important: Retain these instructions



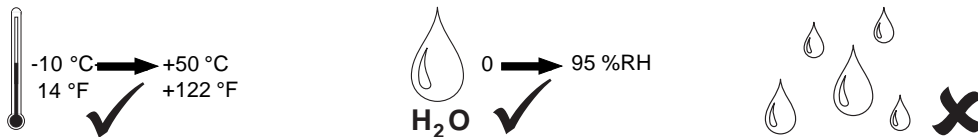
Contents

1	Unpacking	1	3.1 Installation Instructions - Mounting	1
2	Storage	1	3.2 Installation Instructions - Configuration	5
3	Installation Instructions	1	4 Disposal	8

1 Unpacking

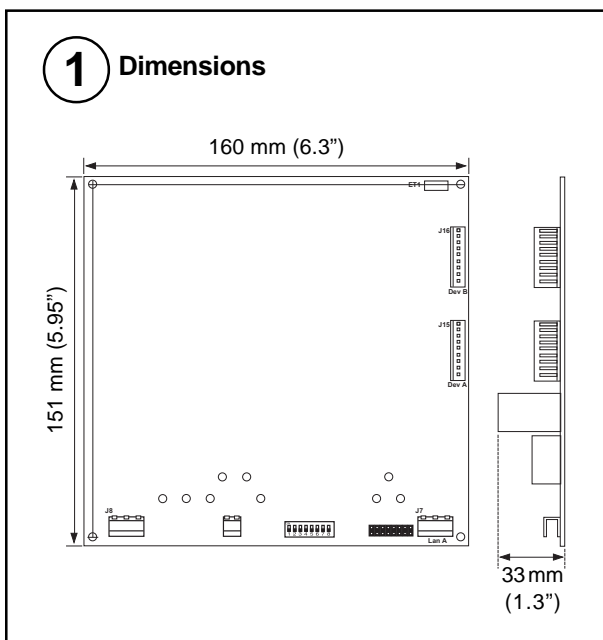


2 Storing



3 Installation Installation

3.1 Installation Instructions - Mounting



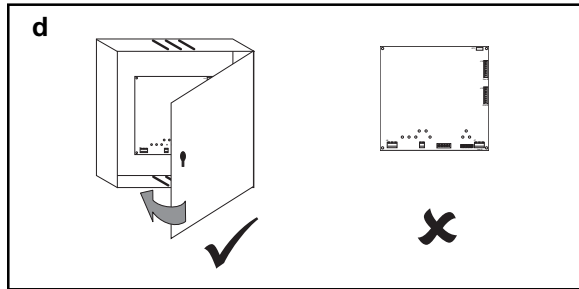
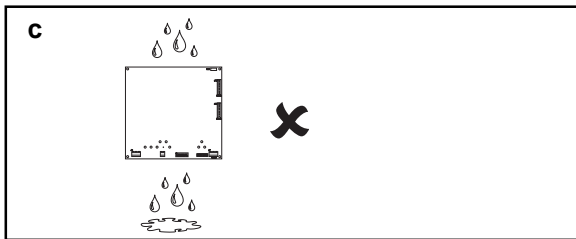
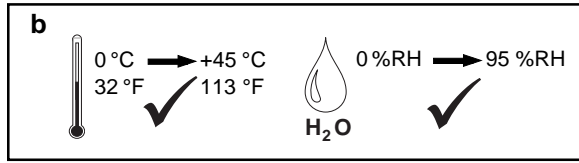
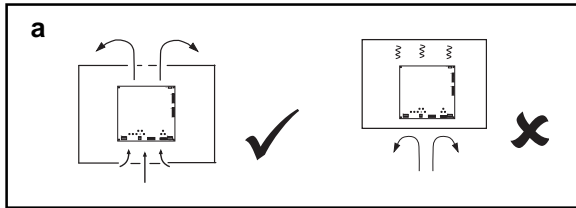
It is recommended that the installation should comply with the HSE Memorandum of Guidance on Electricity at Work Regulations 1989. For USA install equipment in accordance with National Electric Code.

WARNING: Opening the panel may expose dangerous voltages.
417-IEC-5036

Caution: The CNC2 contains static sensitive devices. Suitable anti-static precautions should be taken throughout this operation to prevent damage to the unit.
BS EN100015/1 Basic Specification: protection of electrostatic sensitive devices.

3.1 Installation Instructions - Mounting (continued)

2 Requirements



3 Mount the Node

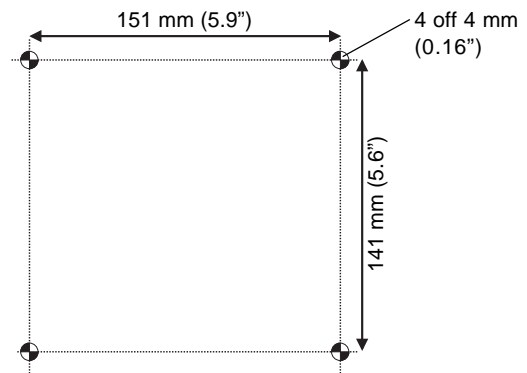
The CNC2 can be fitted into enclosures and controllers as shown in the table below:

NETB/NETBB	✓
IQ101+/102+	✓
IQ111+	✓
IQ131+	✓
IQ251	✓*
IQ250	✓*
IQ241/242	✓
IQ231/233	✓

* CNC2 board fits with 3 screws in normal node position or fits in NDP position. Must use NDP position if RDS fitted.

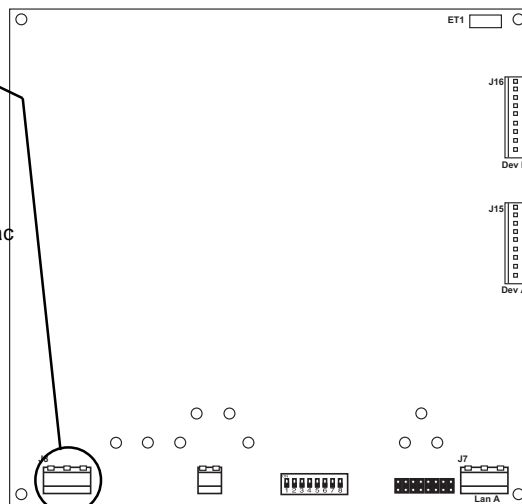
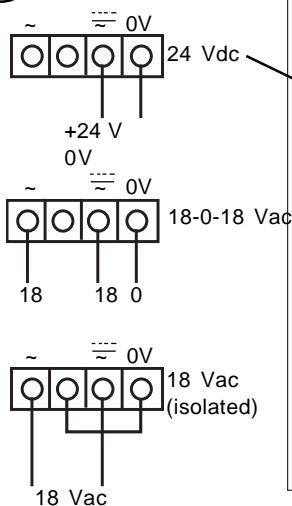


See appropriate enclosure/controller installation instructions for more details about node installation.

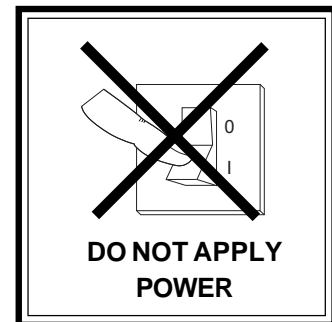


4 Connecting Power

CNC2 consumption <= 5 VA

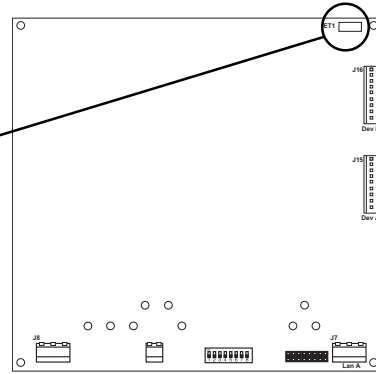
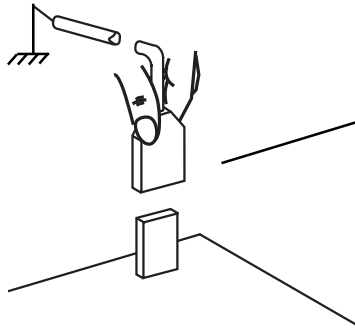


terminal size 0.5 to 2.5 mm² (14 to 20 AWG)



3.1 Installation Instructions - Mounting (continued)

5 Connecting Earth



WARNING: This apparatus must be earthed

6 Connect Network (Lan A)

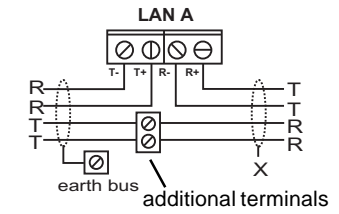
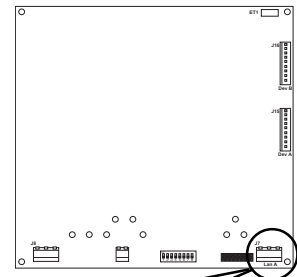
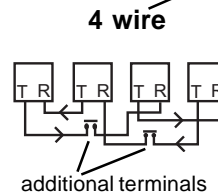
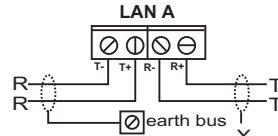
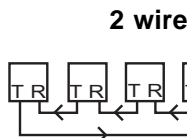


Network Engineering Manual, 92-1735.

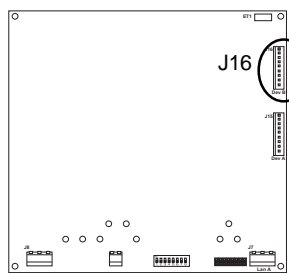
Cable	1k2 baud	4k8 baud	9k6 baud	19k2 baud	No. of Wires
Belden 9182	1000 m (1090 yds)	1000 m (1090 yds)	1000 m (1090 yds)	700 m (765 yds)	2
Belden 9207	1000 m (1090 yds)	1000 m (1090 yds)	1000 m (1090 yds)	500 m (545 yds)	2
Trend TP/1/1/22/HF/200 (Belden 8761)	1000 m (1090 yds)	1000 m (1090 yds)	700 m (765 yds)	350 m (380 yds)	2
Trend TP/2/2/22/HF/200 (Belden 8723)	1000 m (1090 yds)	1000 m (1090 yds)	500 m (545 yds)	250 m (270 yds)	4

terminal size 0.5 to 2.5 mm² (14 to 20 AWG)

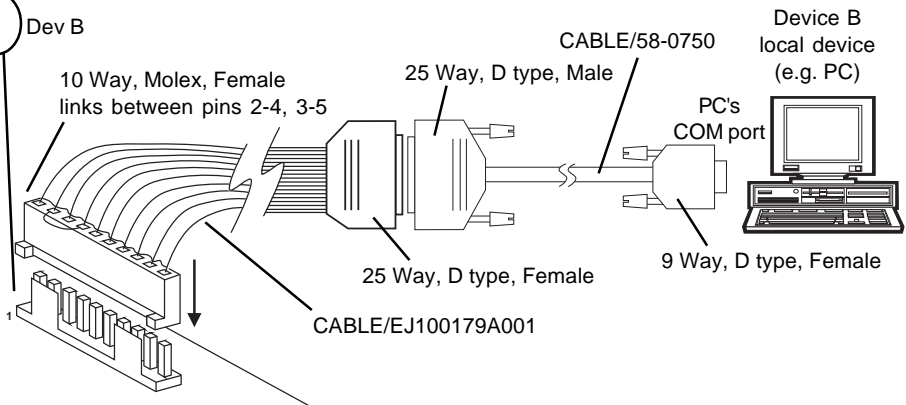
Polarity independent



7 Connect to Local Device
(Device B - RS232)



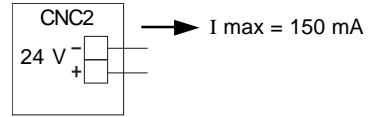
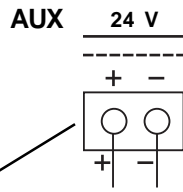
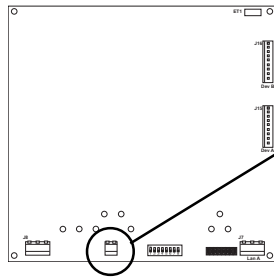
cables not supplied with unit



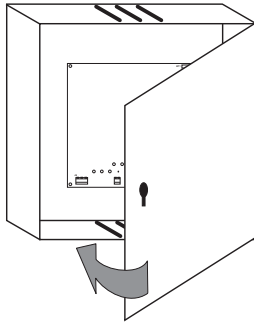
3.1 Installation Instructions - Mounting (continued)

8 Connect Auxiliary Supply Output

terminal size 0.5 to 2.5 mm²



9 Close Panel/Box



3.2 Installation Instructions - Configuration

1 Switch off and open panel/covers

WARNING: Opening the panel may expose dangerous voltages.
417-IEC-5036

Caution: The CNC2 contains static sensitive devices. Suitable anti-static precautions should be taken throughout this operation to prevent damage to the unit.
BS EN100015/1 Basic Specification: protection of electrostatic sensitive devices.

2 Set the Network Address (Lan A)

e.g.

0	1	2	4	8	16	32	64	NORM
	↑	↑	↑	↑	↑	↑	↑	
	ADDRESS							

Address = 2+16+64 = 82

Address = D

SET (link down) / NOT SET (link up)

address ✓ 1, 4 to 9, 11 to 114
✗ 0, 2, 3, 10 or >119

3 Set Network Baud Rate (Baud A)

move link to set baud rate

Network Baud Rate = R1

e.g. 9k6

4 Set Device B connector (RS232) to Local Device Baud Rate (Baud B)

move link to set baud rate

Device B (J16) to local device Baud Rate = R2

3.2 Installation Instructions - Configuration (continued)

5 Switch On

6 Check Node Controller

(a) ⚡ PWR ON (green) Check supply

(b) ! W/DOG (red) CNC2 Faulty

7 Check Network

(a) RXA (yellow) ?

(b) TXA (yellow) ?

(c) OKA (green) Network Address Invalid 0, 2, 3 or >119

LAN A CNC2 Faulty

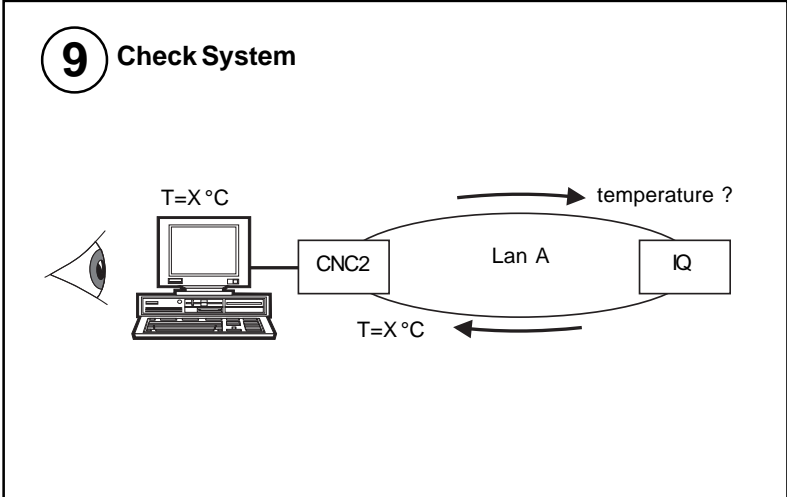
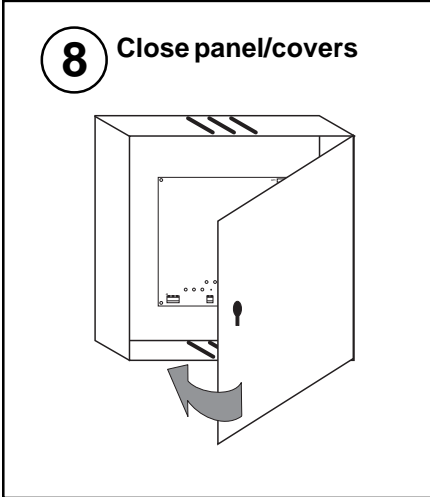
LAN A

CNC2


OKA Check network cabling for short circuits with a multimeter (NOT Megger)

Check baud rate Power up other nodes until faulty node is found (OK). Correct fault.

3.2 Installation Instructions - Configuration (continued)



4 Disposal

	<p>WEEE Directive :</p> <p>At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre.</p> <p>Do not dispose of with normal household waste. Do not burn.</p>
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