TREND

Installation Instructions
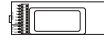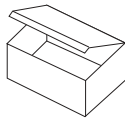# IQPCO/INTERFACE CARD
Carel pCO Interface

Important: Retain these instructions

UNPACKING

IQPCO/INTEFACE
CARD Installation
Instructions
TG200597

STORING

-20 °C ➝ +80 °C H_2O 20 %RH ➝ 80 %RH

✓   ✓   ✗

INSTALLATION

① Switch off pCO Controller

O
I

② Remove Serial Card Cover
If pCO^1, pCO^2

a)   b)   c)

③ Plug in Card

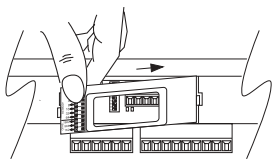a) locate connector   b) insert card
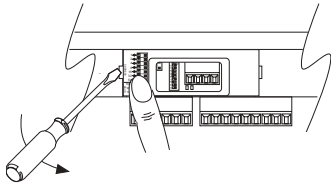
pCO^1, pCO^2 pCO^C

connector

Serial Card

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

INSTALLATION (continued)

4 Place New Cover
If pCO¹, pCO²

a)

b)

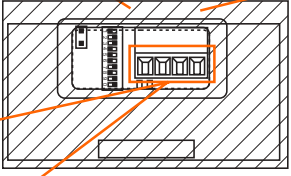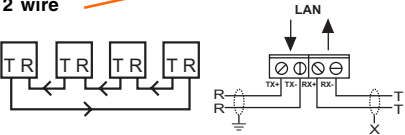### 5 Connect Network
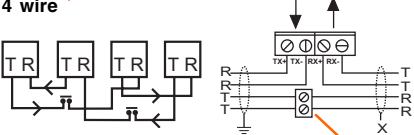
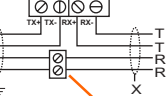Network Engineering Manual 92-1735

pCO¹, pCO²   pCOᶜ

Cable	1k2 baud	9k6 baud	19k2 baud	No. of Wires
Belden 9182	1000 m	1000 m	700 m	2
Belden 9207	1000 m	1000 m	500 m	2
Trend TP/1/1/22/HF/500 (Belden 8761)	1000 m	700 m	350 m	2
Trend TP/2/2/22/HF/500 (Belden 8723)	1000 m	500 m	250 m	4

2 wire

LAN

4 wire

LAN

additional terminals
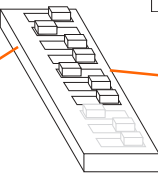
6 Set Network Address
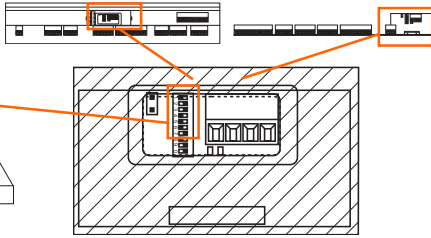
ADDRESS
→ 1
← 2
→ 4
→ 8
← 16
→ 32
→ 64

BAUD
19K2
9K6
1K2

e.g.

Address = 2 + 16 = 18
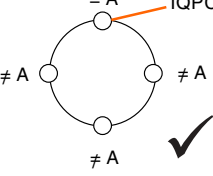
SET   NOT SET

Address = A

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

= A   IQPCO

≠ A   ≠ A

≠ A   ✓

INSTALLATION (continued)

7 Set Network Baud Rate

ADDRESS
1
2
4
8
16
32
64

BAUD
19K2
9K6
1K2

Baud Rate = B

= 1k2 baud
= 9k6 baud
= 19k2 baud

19K2	19K2	19K2
9K6	9K6	9K6
1K2	1K2	1K2

= B
= B   = B
= B
✓

8 Switch On pCO

O
I

9 Check Network OK LED

OK (green) ✓

Network Address Invalid
0, 2, 3, 10 or >119 ✗

✗

LAN
TX+ TX- RX+ RX-
OK ✗ IQ Faulty ✓

LAN
TX+ TX- RX+ RX-

IQPCO

OK
Check baud rate.
Check network cabling for short circuits with a multimeter (NOT Megger)

Power up other nodes until faulty node is found (LAN). Correct fault.

10 Check pCO Error LED

pCO Error (red)

pCO Error ✗
- check pCO controller serial port address set to one, and baud rate set to 19k2

pCO OK ✓

INSTALLATION (continued)

11 Obtain *.CDE file

IQPCO Data Sheet TA200596

Carel Easy Tools → *.TRR *.BLK → Carel CDE Maker → *.CDE

Carel Winload 32

Trend IQPCO
Carel pCO Controller

12 Configure IQPCO

IQPCO Data Sheet TA200596
PCO Tool Manual TE200598

*.CDE → Trend PCO Tool ← *.TPI

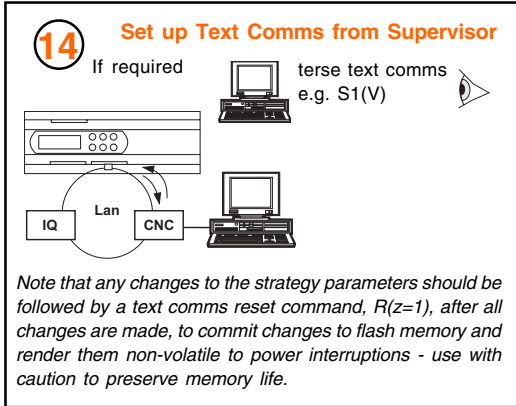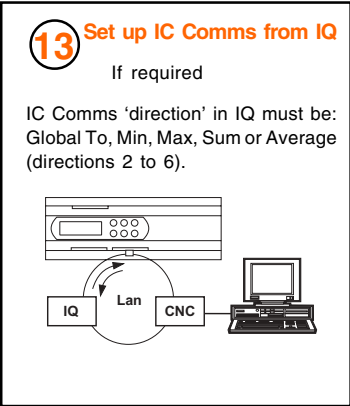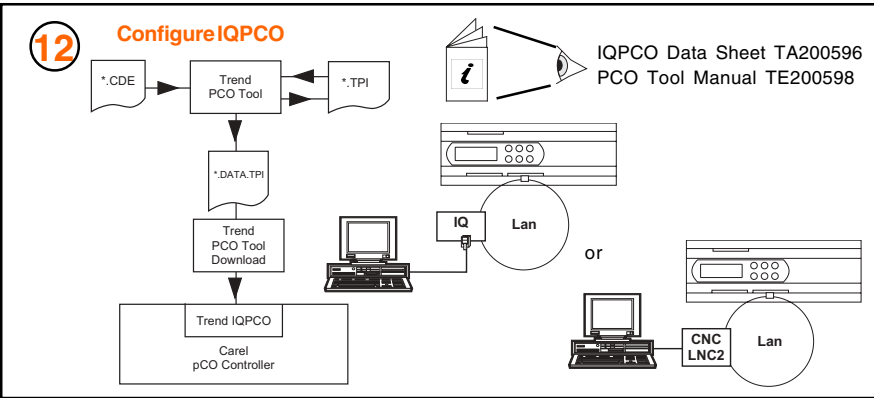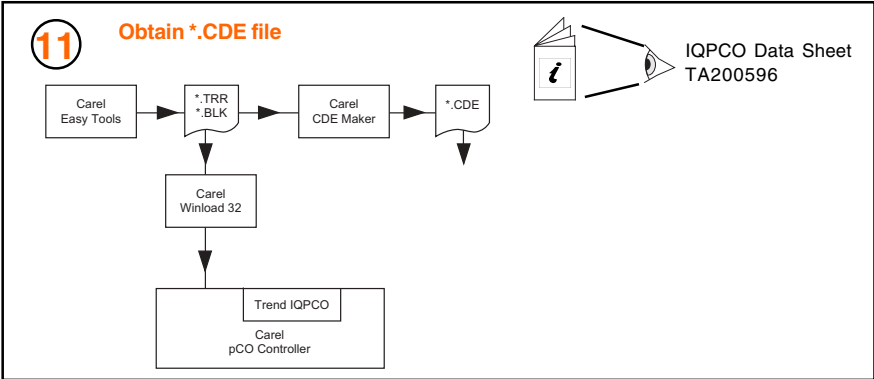*.DATA.TPI

Trend PCO Tool Download

Trend IQPCO
Carel pCO Controller

IQ Lan   or   CNC LNC2 Lan

13 Set up IC Comms from IQ

If required

IC Comms 'direction' in IQ must be: Global To, Min, Max, Sum or Average (directions 2 to 6).

IQ Lan CNC

14 Set up Text Comms from Supervisor

If required   terse text comms e.g. S1(V)

IQ Lan CNC

Note that any changes to the strategy parameters should be followed by a text comms reset command, R(z=1), after all changes are made, to commit changes to flash memory and render them non-volatile to power interruptions - use with caution to preserve memory life.

Trend Control Systems Ltd reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions or changes.

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4   IQPCO/INTERFACE CARD Carel pCO Interface Installation Instructions TG200597 Issue 1/A 5/8/02 [Carel: +050000540]