

Important: Retain these instructions

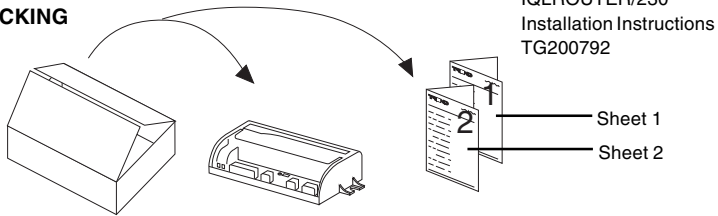


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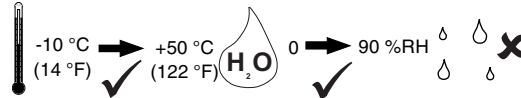
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1 INSTALLATION

1.1 UNPACKING



1.2 STORAGE

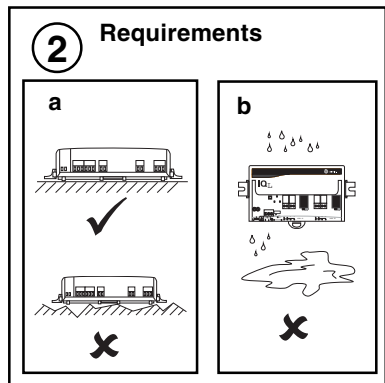
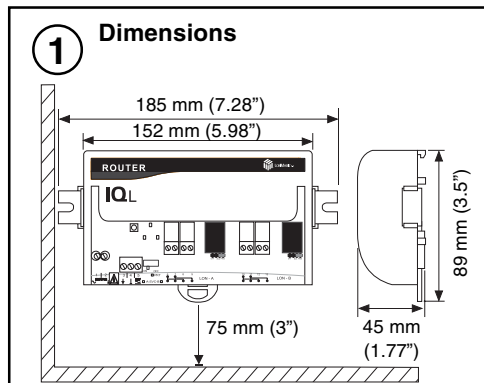


It is recommended that the installation should comply with the HSE Memorandum of Guidance on Electricity at Work Regulations 1989.

1.3 INSTALLATION - FIXING



Note that this product may involve Lonworks system integration . This procedure should only be performed by an installer with LonWorks engineering expertise.



1.3 INSTALLATION - FIXING (Continued)

2 Requirements (Continued)

c

d If not installed well outside normal reach (e.g. behind false ceiling)

e

0 °C (32 °F) → +45 °C (113 °F) ✓

0 → 90 %RH ✓

Protection: IP20

f Avoid locations where corrosive fumes or explosive vapours are present. Avoid electrical noise interference.

3 Mounting

Either surface mount 2 holes

a 170 mm (6.69")

b Ø 6 mm (0.24")

or DIN rail mount

a

b

c

4 Lift hinged cover

a

b

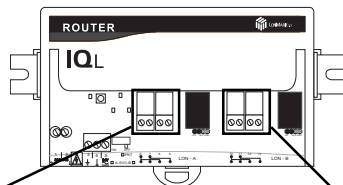
c

WARNING: Failure to use a screwdriver to open the cover will cause damage to the unit.

1.3 INSTALLATION - FIXING (Continued)

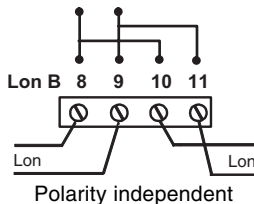
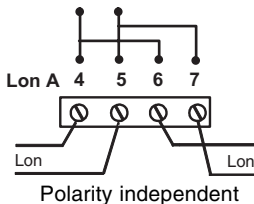
5 Connect Lon

Terminal size 0.5 to 2.55 mm²
(14 to 20 AWG)



Network Side A

Network Side B

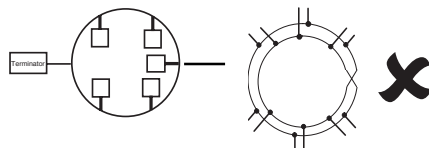
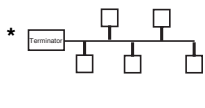
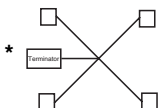


Lon - FTT (free topology)

Star topology

Bus topology

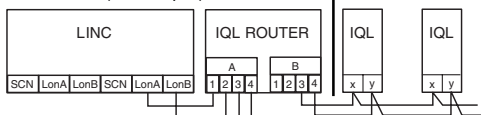
Loop topology



*Terminate Lon bus at one point only

Do not allow wires to cross on a loop

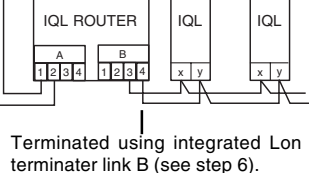
Terminated using integrated Lon terminator link B (see step 6)



Terminate at IQLROUTER using integrated Lon terminator link A (see step 6).
Integrated Lon terminator link A set to OFF (see step 6)

Maximum 64 nodes per Lon segment
Maximum 40 IQLs (and LONCs) per virtual Lan

Cable	Max bus length	Max node to node
Belden 85102	500 m (545 yds)	500 m (545 yds)
Trend TP/1/0/16/HF/200 (Belden 8471)	500 m (545 yds)	400 m (430 yds)
UL Level IV, 22 AWG	500 m (545 yds)	400 m (430 yds)
JY(St) Y2 x 2 x 0.8	500 m (545 yds)	320 m (350 yds)
TIA568A Cat. 5, 24 AWG	450 m (490 yds)	250 m (270 yds)



If used with LPT-10 (powered bus), cable lengths differ - see Link Power Transceiver User's Guide (078-0105-01C) available from Echelon

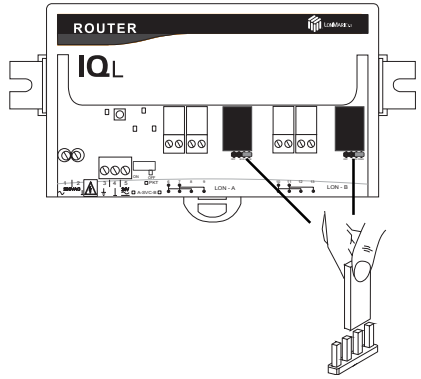
1.3 INSTALLATION - FIXING (Continued)

6 SET Lon Terminator Links

OFF No terminator. Lon must be terminated elsewhere.

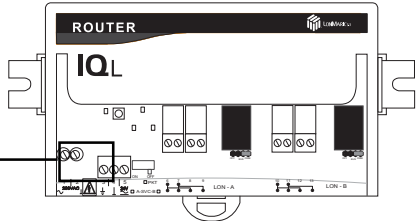
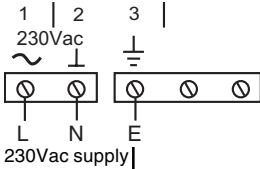
FREE Use to terminate Lon at IQL Router

Terminate Lon bus at one point only



7 Connect Power

DO NOT Switch on



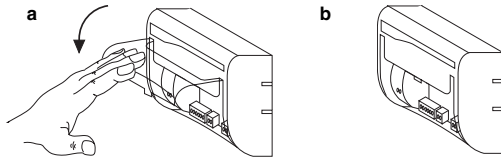
WARNING: This apparatus must be earthed (via earth terminal).

Clean earths consisting of short (<300 mm, 12") stranded copper wire (>=1.5 mm², 16 AWG) to a substantial earthed metal part (e.g. cable tray) are recommended.

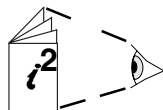
IQLROUTER/230 consumption = 2VA

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

8 Close Hinged Cover



9 Sheet 2



IQLROUTER/230 Installation Instructions - Sheet 2

IQLROUTER/230

IQL Lon Router

1.4 INSTALLATION - CONFIGURATION

1 Sheet 1

IQLROUTER/230 Installation Instructions - Sheet 1

2 Switch ON

Power Supply IQLROUTER

The diagram illustrates the power-up process. On the left, a hand is shown flipping a switch from 'O' (Off) to 'I' (On). In the center is the IQLROUTER device with its various ports and labels. On the right, a hand is shown plugging a power cord into the power jack on the router, with an arrow pointing to the 'ON' indicator on the jack.

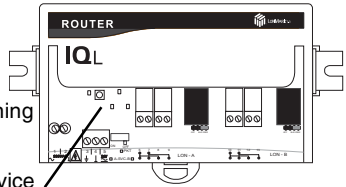
3 Check Router

The diagram shows the IQLROUTER with three main lines connected to it: 'Packet', 'Power', and 'Service'. Each line is associated with lightbulb icons representing the status of that connection. 'Packet' has three lit lightbulbs and a checkmark. 'Power' has one lit lightbulb with a checkmark, and one unlit lightbulb with an 'X' and the text 'check power'. 'Service' has three lit lightbulbs with a checkmark, two unlit lightbulbs with an 'X' and the text 'Contact Trend', and two lit lightbulbs with an 'X' and the text 'Contact Trend'.

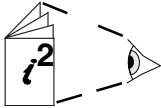
1.4 INSTALLATION - CONFIGURATION (Continued)

4 Install using LonWorks Network Manager Tool

- if **(a)** binding IQLs to LonMark devices
- or **(b)** LINC's version <3.23 straddle router.
- or **(c)** changing Lon Router from Bridge to Learning Router, Configured Router, or Repeater



When installing Lon Router in LonWorks tool press service button when requested for each side of network.

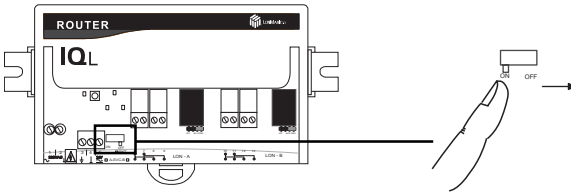


See LonWorks network manager tool manual. See Trend LonWorks Technical Guide (installation and fault finding). LonWorks System Integrator must have LonWorks engineering expertise.

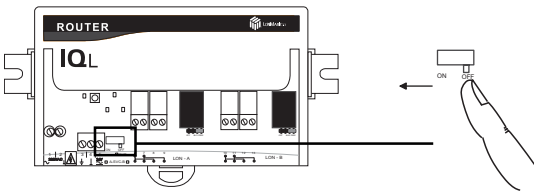
2 RESET IQLROUTER/230

If the addresses of IQ System devices have been changed it is necessary to reset the IQL Router to force its routing table to be regenerated. This done by powering the unit OFF, and then ON.

1 Switch OFF



2 Switch ON



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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