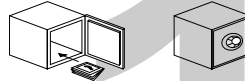


Important: Retain these instructions

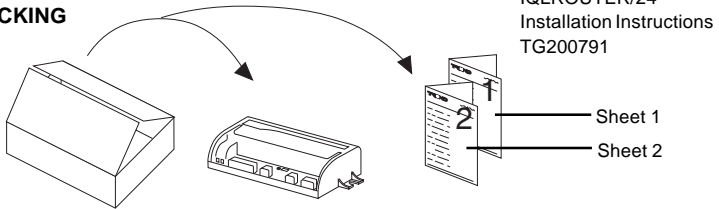


CONTENTS

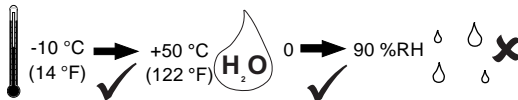
| | | | |
|---------------------|-----|--|-----|
| 1.1 Unpacking | 1-1 | 1.3 Installation - Mounting | 1-1 |
| 1.2 Storage | 1-1 | 1.4 Installation - Configuration | 2-1 |
| | | 2 Reset IQLROUTER/.../24VAC | 2-3 |
| | | 3 Disposal | 3-4 |


1 INSTALLATION

1.1 UNPACKING




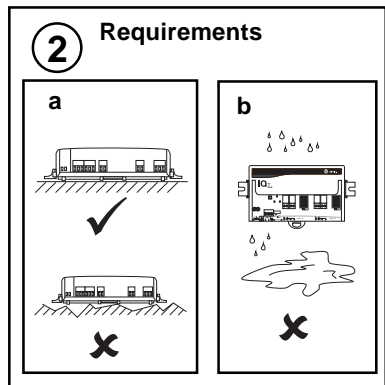
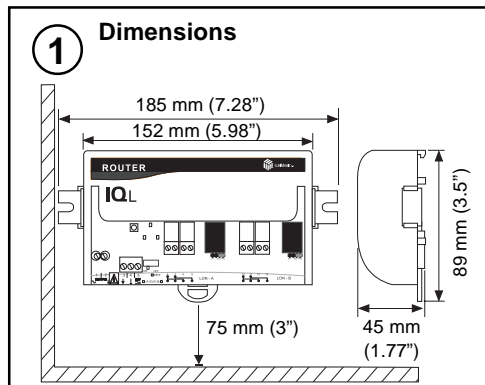
1.2 STORAGE



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

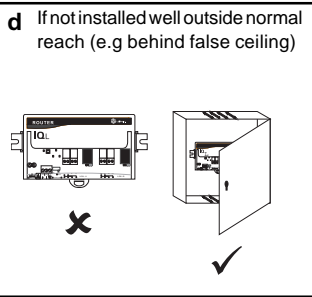
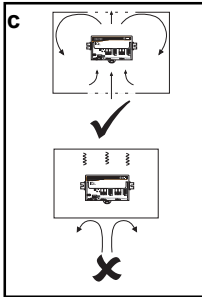
1.3 INSTALLATION - MOUNTING

 *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 - MOUNTING (Continued)

2 Requirements (Continued)



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.

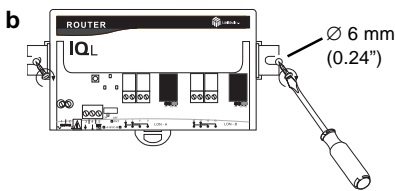
g For IQL ROUTER/NOVAR/UL/24VAC only

UL rated as 'UL916, open listed energy management equipment accessory'

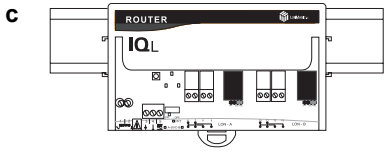
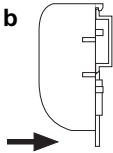
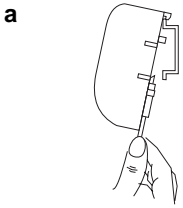
3 Mounting

Either surface mount 2 holes

a 170 mm (6.69")



or DIN rail mount



1.3 INSTALLATION - MOUNTING (Continued)

4 Lift hinged cover

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

5 Connect Lonworks Bus

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

Network Side A

Polarity independent

Lonworks - FTT (free topology)
Star topology* Bus topology*

Network Side B

Polarity independent

Loop topology*

Do not allow wires to cross on a loop

*Terminate Lonworks bus at one point only

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 Lonworks segment
Maximum 40 IQLs (and LONCs) per virtual Lan

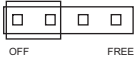
| Cable | Max bus length | Max node to node |
|-------------------------------------|-----------------|------------------|
| Belden 85102 | 500 m (1640 ft) | 500 m (1640 ft) |
| Trend TP/10/16/HF/200 (Belden 8471) | 500 m (1640 ft) | 400 m (1310 ft) |
| UL Level IV, 22 AWG | 500 m (1640 ft) | 400 m (1310 ft) |
| JY(St) Y2 x 2 x 0.8 | 500 m (1640 ft) | 320 m (1050 ft) |
| TIA568A Cat. 5, 24 AWG | 450 m (1475 ft) | 250 m (820 ft) |

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

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

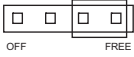
1.3 INSTALLATION - MOUNTING (Continued)

6 SET Lon Terminator Links



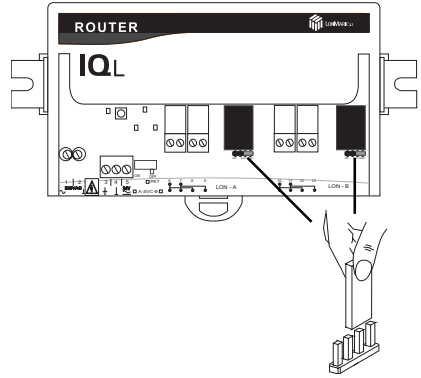
OFF FREE

OFF
No terminator. Lonworks bus must be terminated elsewhere.



OFF FREE

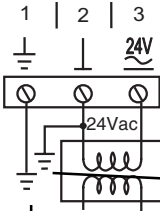
FREE
Use to terminate Lonworks bus at IQL Router



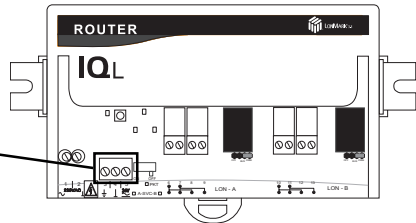
Terminate Lonworks bus at one point only

7 Connect Power

DO NOT Switch on



Earth (ground) 24 Vac input power neutral at transformer



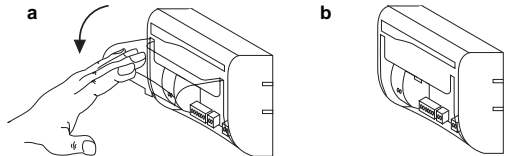
WARNING: This apparatus must be earthed (grounded) using earth (ground) terminal.

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

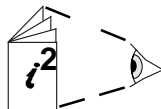
IQLROUTER/24 consumption =2VA

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

8 Close Hinged Cover



9 Sheet 2

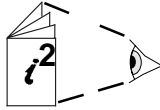


IQLROUTER/./24VAC Installation Instructions - Sheet 2

1.4 INSTALLATION - CONFIGURATION

1

Sheet 1

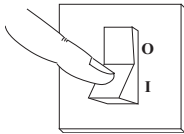


IQLROUTER/.../24VAC Installation Instructions - Sheet 1

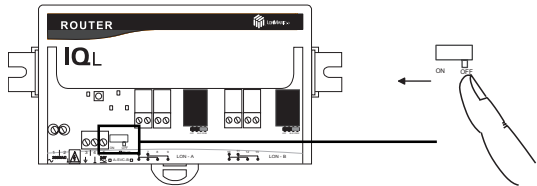
2

Switch ON

Power Supply

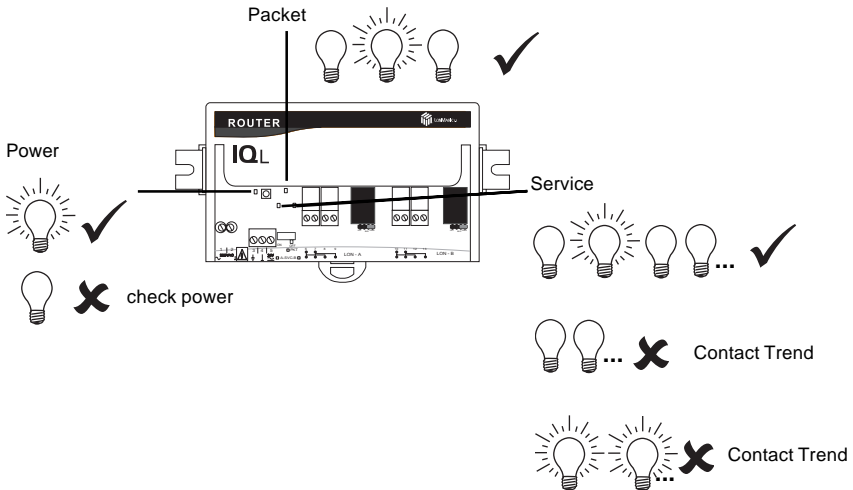


IQLROUTER



3

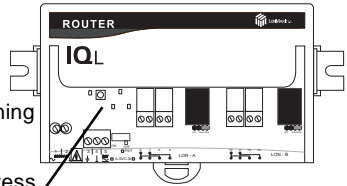
Check Router



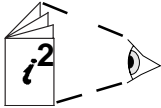
1.4 INSTALLATION - CONFIGURATION (Continued)

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

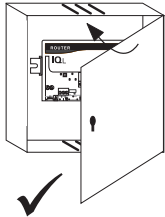


When installing IQLROUTER in Lonworks tool press service button when requested for each side of network.



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

5 Close Panel (For IQL ROUTER/NOVAR/UL/24VAC only)

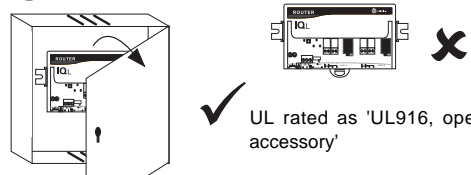


UL rated as 'UL916, open listed energy management equipment accessory'

2 RESET IQLROUTER/24

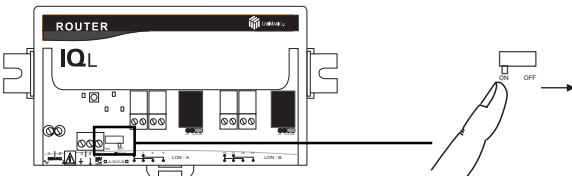
If the addresses of IQ System devices have been changed it is necessary to reset the IQL Router to force its routing table to be regenerated. This is done by powering the unit OFF, and then ON.

1 Open Panel (For IQL ROUTER/NOVAR/UL/24VAC only)

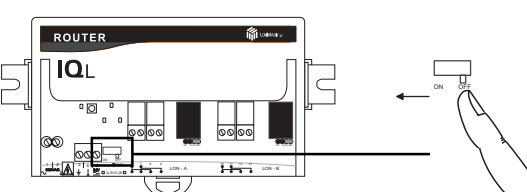


✓ UL rated as 'UL916, open listed energy management equipment accessory'

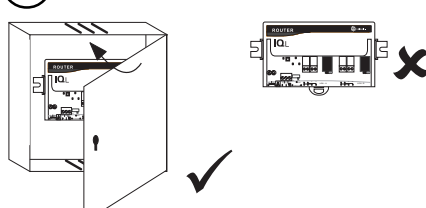
2 Switch OFF



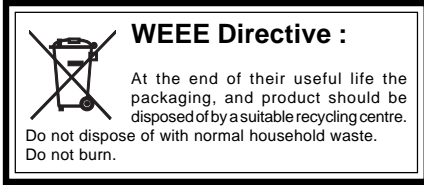
3 Switch ON



5 Close Panel (For IQL ROUTER/NOVAR/UL/24VAC only)



✓ UL rated as 'UL916, open listed energy management equipment accessory'

3 DISPOSAL

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland by its Authorized Representative, Trend Control Systems Limited.

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