KRIB

Installation Manual

Web Enabled Central Heating Programmer

V9G

systemlink
Technologies

CAUTION! This specification relates to the KRIB family of products. It specifies operating conditions and installation requirements for the KRIB assuring correct and safe operation. The KRIB should only be installed by suitably qualified professional. Systemlink accepts no responsibility for installation and use of KRIB equipment unless these requirements are strictly adhered to. Systemlink reserves the right to amend this specification and the KRIB product configuration as it sees fit.

Introduction

Systemlink's patented KRIB 5-channel time and temperature programmer allows for control of up to 4 heating zones plus 1 hot water zone. Further zones can be added by using the additional wireless switch products.

The KRIB gives the user control of their heating system from anywhere with the KRIB App.

Wi-fi is *not* required to operate the KRIB system. Broadband is only required if the user wants control of the heating system through the smartphone App.

All installation work should be carried out by a suitably qualified professional.

# KRIB Electrical Wiring Set-Up

1. CAUTION! The KRIB should only be installed by a suitably qualified professional.

2. Before installation, the mains electricity supply should be isolated. Test, confirm and make sure it is secured in the off position for the duration of the installation.

3. Choose the appropriate electrical wiring diagram to correspond with the mechanical installation.

4. Wire the boiler, all zone thermostats and pumps/motorised valves to the KRIB wiring panel as shown in the chosen wiring diagram.

5. Relay R5 should be used for Domestic Hot Water Zone control. Note there are configuration changes required within the settings of the Touchscreen. See pages 10/11 for details.

6. The KRIB Touchscreen and the Gateway are both powered by low-voltage power adapters, with the Touchscreen adapter connected to V+ and G and the Gateway adapter simply plugged in.

Mounting the Touchscreen

Choose a suitable location to mount the Touchscreen. Bear in mind that it reads and controls the temperature of the room in which it is mounted.

It should be between 1.2 and 1.5 metres from the floor and not exposed to heat sources (such as radiators or direct sunlight) or draughts (from open windows or doors).

Unclip the front bezel around the edges (starting at the left side) and remove to expose the 4 assembly screws located as circled in yellow below.
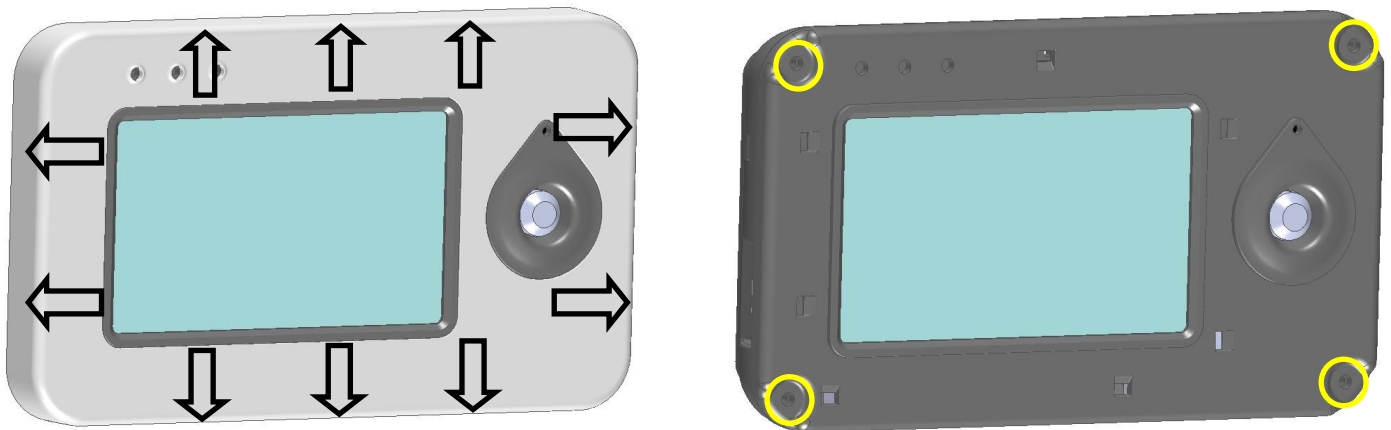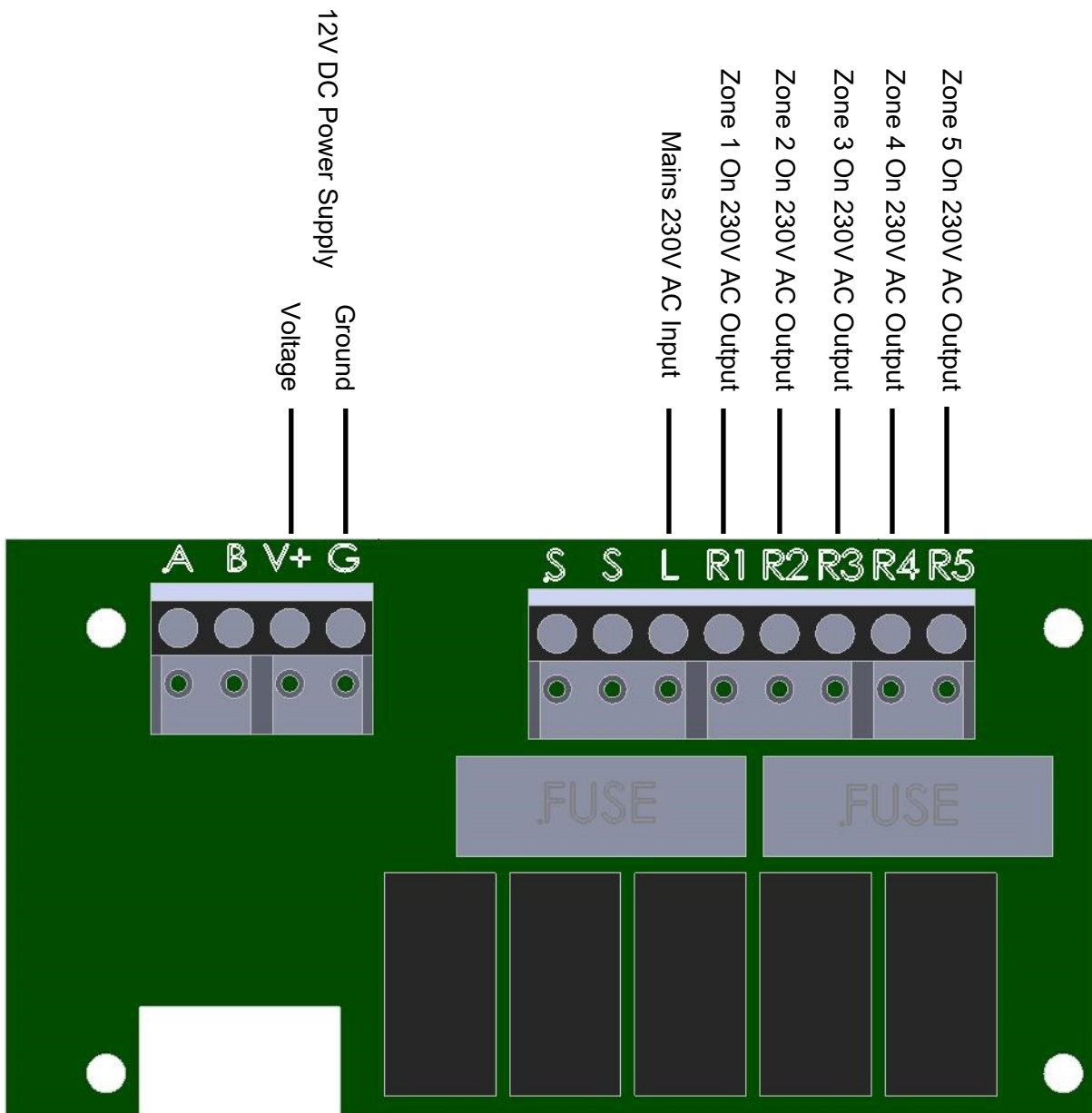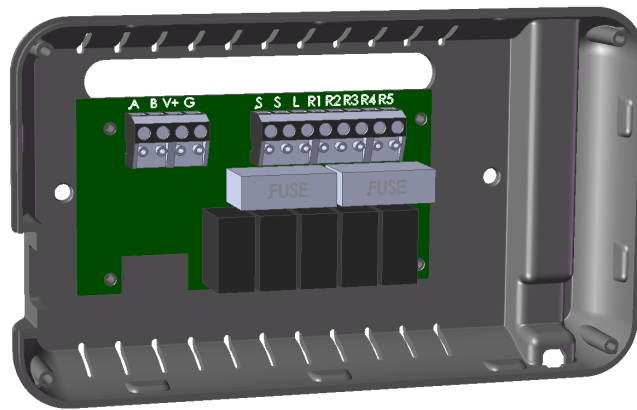

Remove these four screws and carefully remove the front of the Touchscreen, taking care not to damage the temperature sensor or connecting ribbon cable. Unplug the connecting ribbon cable to ease access if required.
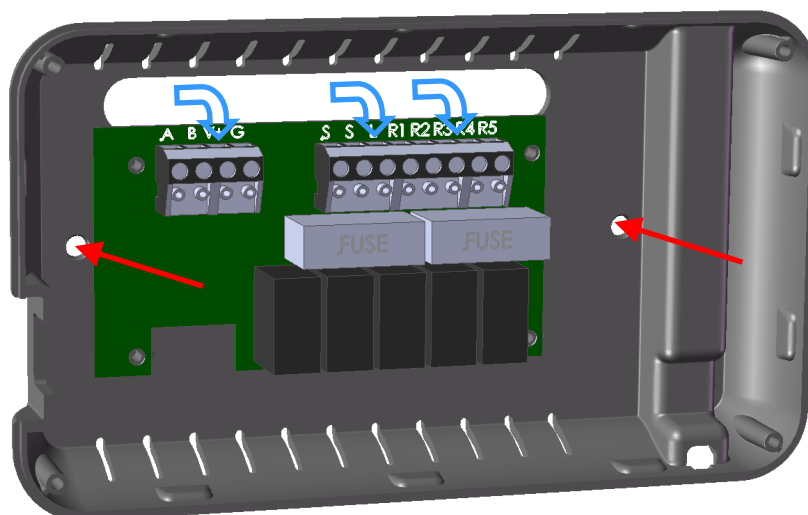
Mount the backplate directly to a wall or to a standard 2-gang electrical Pattress Box using the holes highlighted by the red arrows above.

Route electrical wires through the slot and into the connector blocks as highlighted by the blue arrows above.

Touchscreen PCB Connections

12V DC Power Supply
- Voltage
- Ground

Mains 230V AC Input

Zone 1 On 230V AC Output

Zone 2 On 230V AC Output

Zone 3 On 230V AC Output

Zone 4 On 230V AC Output

Zone 5 On 230V AC Output

A B V+ G   S S L R1 R2 R3 R4 R5

FUSE   FUSE

NOTE: Zone 1 Relay R1 is controlled by the internal room thermostat, so should **not** be used as the Domestic Hot Water Zone control.
Zone 5 Relay R5 should be used for Domestic Hot Water Zone control.
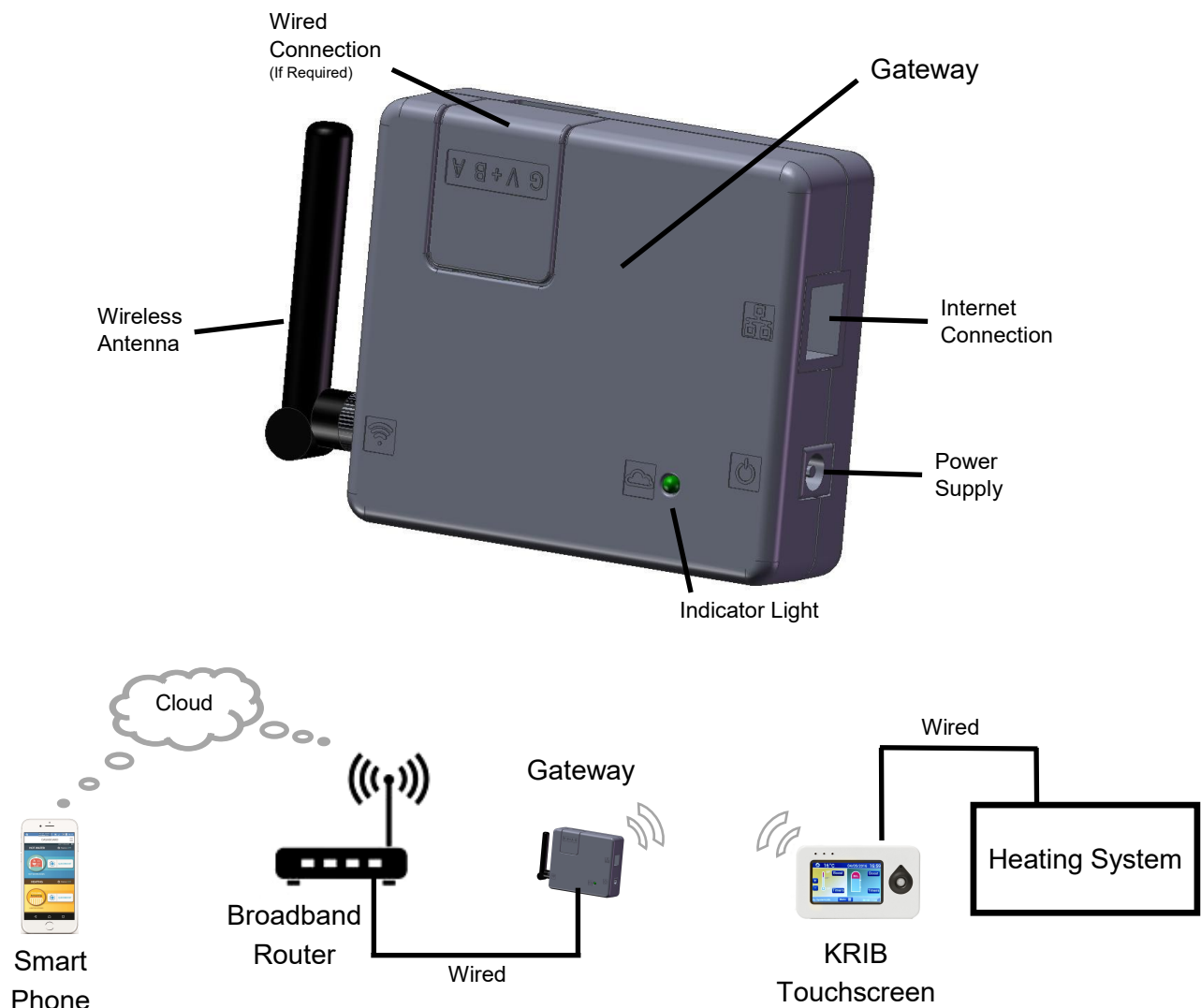
The Gateway

The KRIB system uses the Gateway to communicate over the internet, which allows the system to be controlled by the smartphone App and to receive over-the-air updates.

Before powering up the Gateway, all wiring to the Touchscreen and the KRIB Control PCB should be completed first.
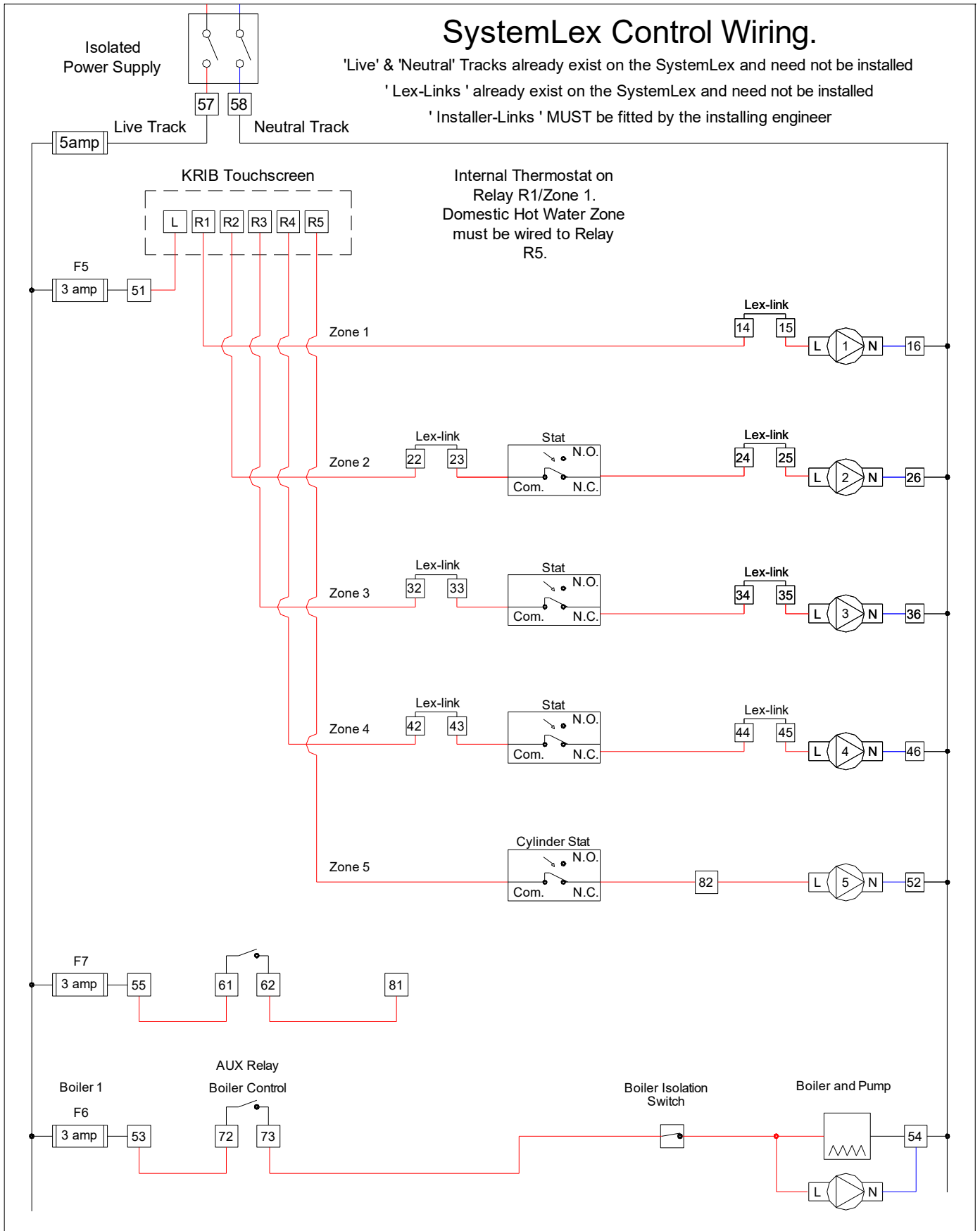
To install the Gateway a spare network port on a broadband router is required along with a standard 230V power socket. The Gateway is powered by a low-voltage power adapter. The internet connection on the Gateway should be connected to the spare network port on the router using the network cable provided.

Finally, fit the power supply cable end connector into the Gateway and then plug the power supply into the power socket.
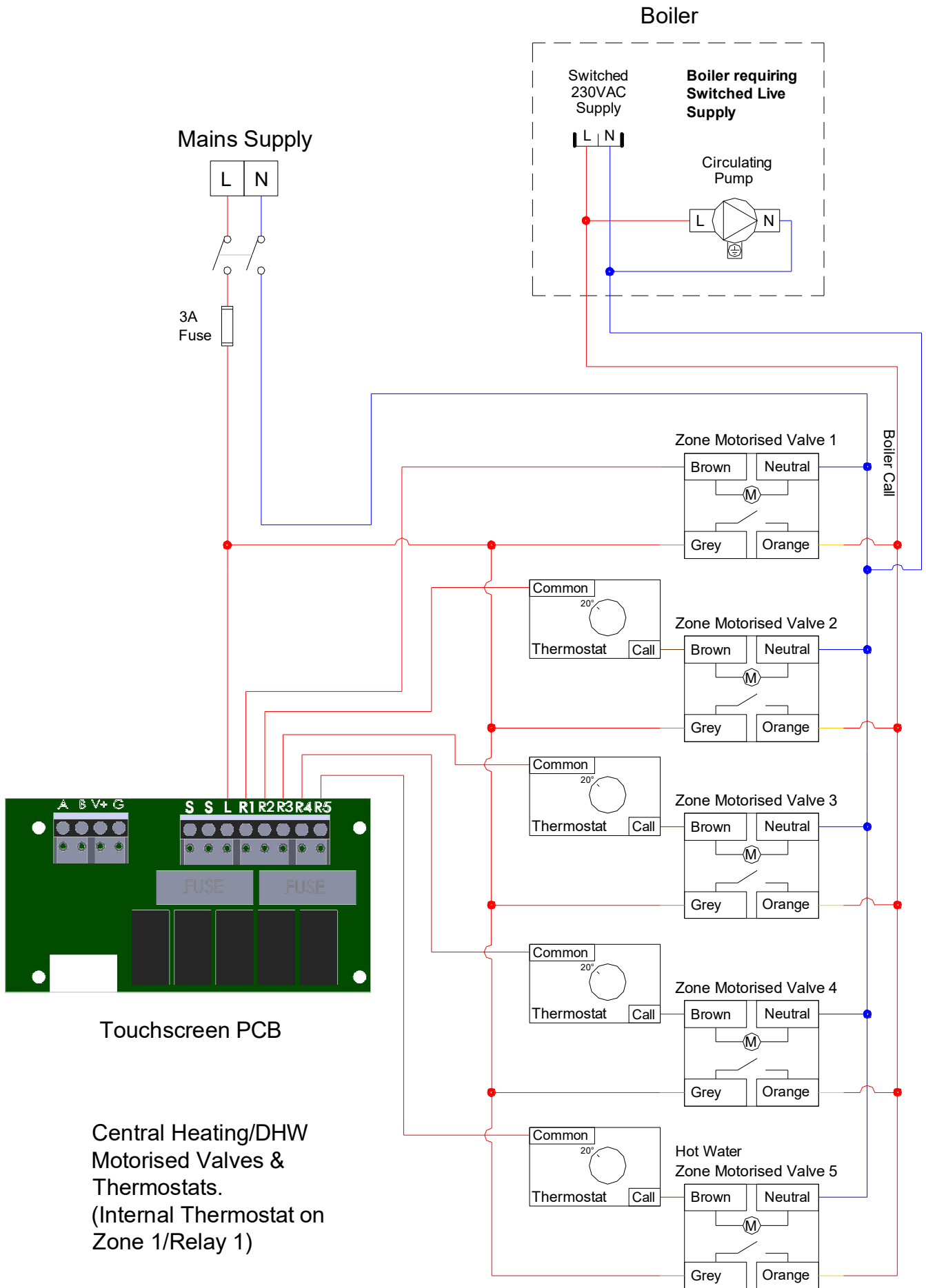
The Indicator LED indicates when power is connected. The Ethernet connection flashing LED indicates when there is communication.

Wiring Diagrams

SystemLex Control Wiring.

'Live' & 'Neutral' Tracks already exist on the SystemLex and need not be installed

' Lex-Links ' already exist on the SystemLex and need not be installed

' Installer-Links ' MUST be fitted by the installing engineer

Isolated Power Supply

57 58

Live Track   Neutral Track

5amp

KRIB Touchscreen

L R1 R2 R3 R4 R5

Internal Thermostat on Relay R1/Zone 1. Domestic Hot Water Zone must be wired to Relay R5.

F5
3 amp   51

Zone 1

Lex-link
14 15
L 1 N   16

Zone 2

Lex-link
22 23

Stat
N.O.
Com.   N.C.

Lex-link
24 25
L 2 N   26

Zone 3

Lex-link
32 33

Stat
N.O.
Com.   N.C.

Lex-link
34 35
L 3 N   36

Zone 4

Lex-link
42 43

Stat
N.O.
Com.   N.C.

Lex-link
44 45
L 4 N   46

Zone 5

Cylinder Stat
N.O.
Com.   N.C.

82

L 5 N   52

F7
3 amp   55   61 62   81

AUX Relay
Boiler Control

Boiler 1
F6
3 amp   53   72 73

Boiler Isolation Switch

Boiler and Pump

54

L N

**Wiring Diagram No. 1: System Zoned with Pumps or Motorised Valves with Boiler switched by SystemLex**

Mains Supply

L N

3A Fuse

Boiler

Switched 230VAC Supply

Boiler requiring Switched Live Supply

L N

Circulating Pump

L N

Boiler Call

Zone Motorised Valve 1
Brown | Neutral
M
Grey | Orange

Common
20°
Thermostat | Call

Zone Motorised Valve 2
Brown | Neutral
M
Grey | Orange

Common
20°
Thermostat | Call

Zone Motorised Valve 3
Brown | Neutral
M
Grey | Orange

Common
20°
Thermostat | Call

Zone Motorised Valve 4
Brown | Neutral
M
Grey | Orange

Common
20°
Thermostat | Call

Hot Water
Zone Motorised Valve 5
Brown | Neutral
M
Grey | Orange

A B V+ G   S S L R1 R2 R3 R4 R5

FUSE   FUSE

Touchscreen PCB

Central Heating/DHW
Motorised Valves &
Thermostats.
(Internal Thermostat on
Zone 1/Relay 1)

Wiring Diagram No. 2: System Zoned with Motorised Valves. Boiler switched through Motorised Valves.

KRIB Electronics System Set-Up

1. Switch on power supply to the Gateway (ensure the Gateway is connected to the broadband router). From the main menu select Cloud. If Status is Active skip to step 6, otherwise if Status is Inactive continue to step 2.
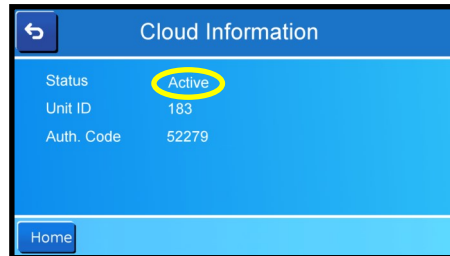
2. From the main menu Menu ≡ enter the Installer Menu on the Touchscreen. Enter pin code 1111.

3. Select Gateway and press Scan. Scan This should populate the Gateway Address. Press Save Save (The gauge at the bottom right of the Home Screen Dashboard should now indicate a wireless signal).
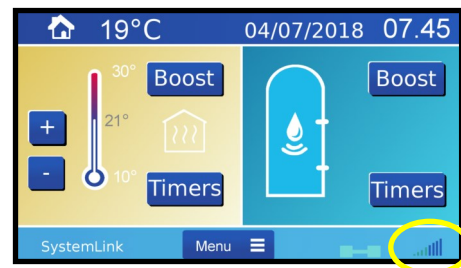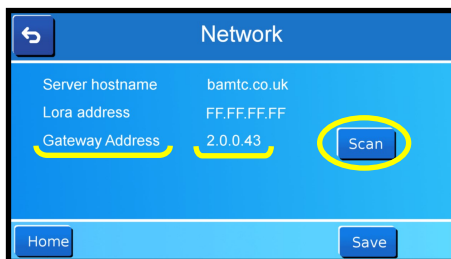

4. If the Gateway will not scan, try disconnecting and reconnecting Gateway power and repeating the scan procedure. Note that the Gateway can only be scanned for the first 30 seconds on every occasion after being powered on.

5. Return to the Installer Menu. Enter Cloud. Press Activate to connect the KRIB to the cloud. Status should change to Active.

6. At this point data from the Touchscreen will be sent to the cloud. This data contains information about the zones, settings and configurations as it is the first time it is being connected. Allow the unit approximately 15 minutes to transfer this data before trying to use the mobile app.

7. Next install the KRIB App from the Play Store for an Android device or the App Store for an Apple device.

8. Open the App and enter details as found in "Cloud" from the Main Menu on the Touchscreen. The App is now ready to use.

KRIB General System Set-Up

1. From the main menu enter the Installer Menu on the Touchscreen. Enter pin code 1111.

2. Select Setup.

3. If "AquaEko connected?" is set to a green "Yes", change this to a red "No". Press Save.

4. Enter the Installer Menu again.

5. Select Zones. In this screen zone names can be set and also whether a zone is a heating zone or a standalone electrical switch e.g. electric gates. A zone set to electrical switch will not switch on the boiler when active.

6. Using the right arrow manoeuvre to Zone 5. If there is a Domestic Hot Water Zone it must be wired to Zone 5 Relay 5 and it must be switched from "Heating" to "Hot Water". See below. Then press Save.
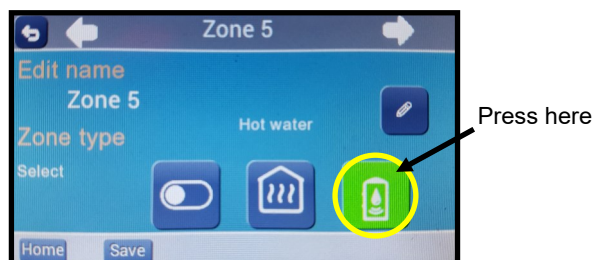
7. Note that Zone 1 Relay 1 as listed in the Zone screen is the zone that displays and is operated by the room temperature as read by the internal sensor.

8. The zones in use can now be renamed to something more relevant by pressing the pencil to edit. Do not forget to press Save.

Specifications:

Fuse Ratings: Touchscreen PCB 2X 3A. Anti-Surge.

Relay Rating: Maximum 2A resistive switching capacity

Contact Information: See http://www.systemlink.ie/contact.html

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