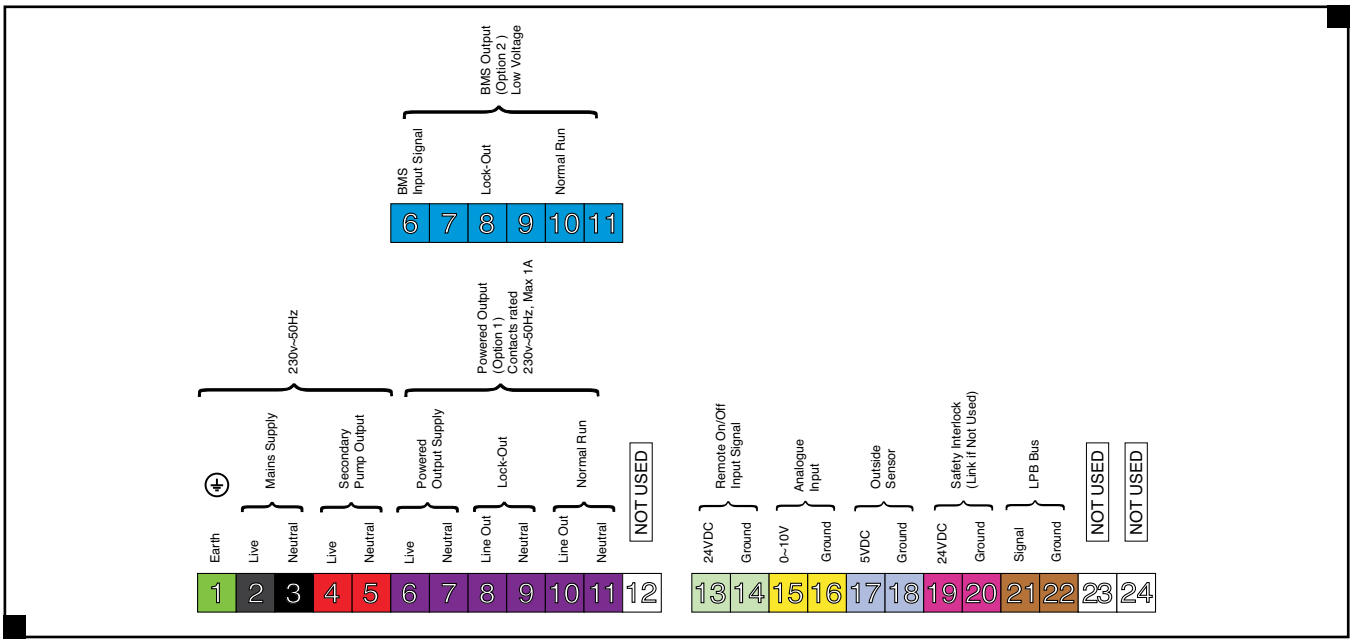
Wiring Diagram

Fleet Vertical Boilers

The following electrical connections are provided on each boiler module:

- Supply live neutral and earth
- Boiler general fault alarm signal output
- Boiler normal run signal output
- 0 – 10v analog control signal input
- Remote on/off control input
- Remote safety interlock circuit input



Electrical Supply

An independent isolator and fused electrical supply is recommended for each boiler module. Supply 230 volt, 50Hz, single phase. Wiring external to the boiler must be installed in accordance with IEE Regulations and any local regulations which apply. Wiring must be completed in heat resistant 3 core cable, (size 1.0 mm² c.s.a.). Fascia fuse rating is 2 amp. External fuses should be rated 6 amps for each boiler.

To prevent drawing excessive current (>1 amp) through the boiler control panel, it is recommended that external pumps are connected via contactors.

Electrical Connections

There is a gland plate fitted in the side of each module to accept cables for power supply and controls.

A single terminal rail is fitted inside the front cover, and all external connections are made to this terminal rail.

Remote Signalling

Volt free contacts are provided to indicate the following operating conditions:

- Boiler normal run
- Boiler general fault

0-10 Volt DC Analog Input

A 0-10 volt DC analog signal interface is provided to control the boiler from an external Building Management System (BMS).

The interface can be configured to control the boiler according to either power requirement or temperature requirement.

Remote on/off

Facilitating control from an external source the remote on/off circuit is powered at 24V DC and requires a volt free contact device to enable/disable operation. The boiler will operate using its own internal temperature regulation controls in remote on/off operation mode.

Remote Safety Interlock

Safety devices such as pressurisation units, flue fans etc can be interlocked with boilers using a 24V DC circuit requiring a volt free contact device to permit/prevent operation.