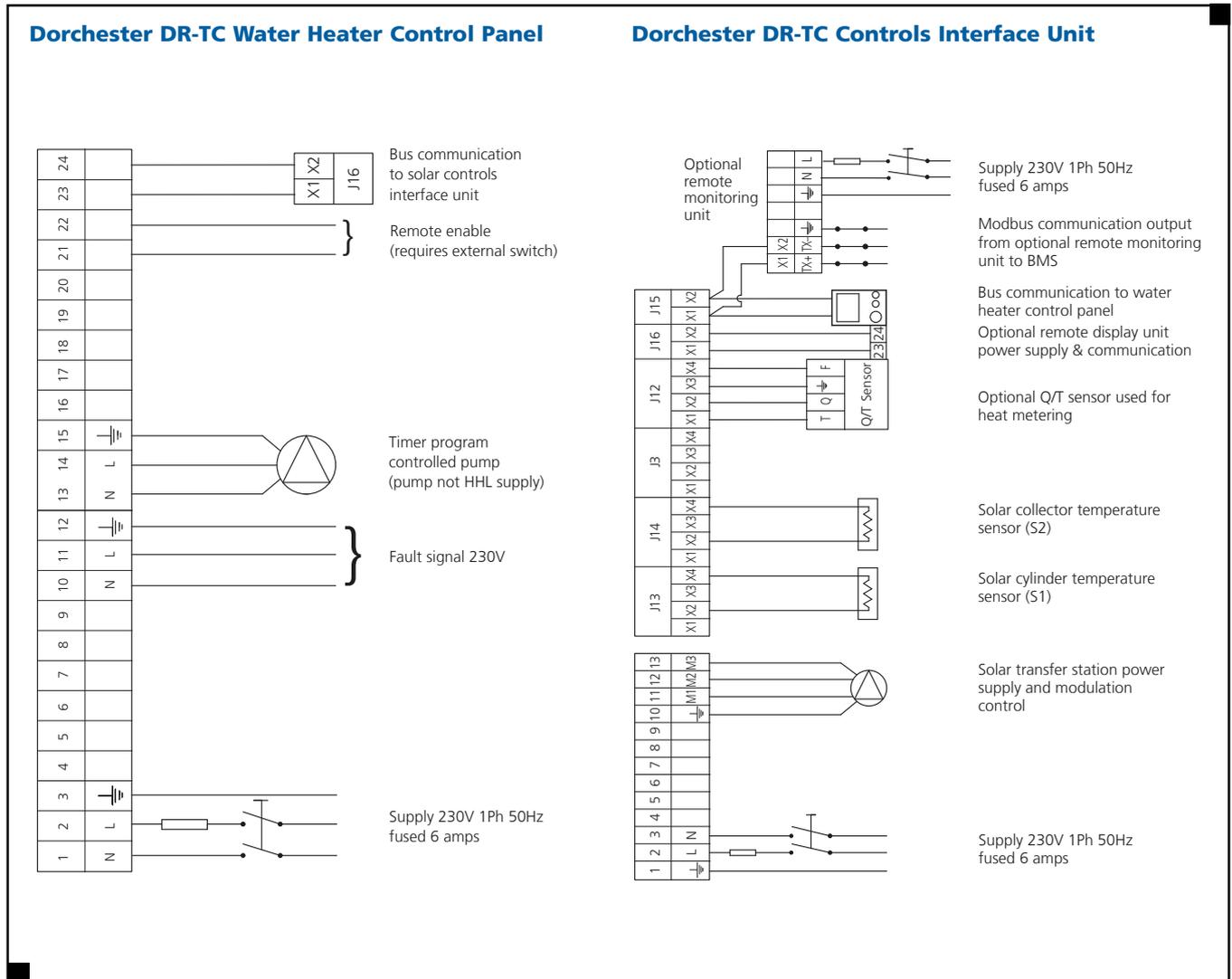


# Wiring Diagram

Dorchester DR-TC



## Power Supply

An independent isolator and fused electrical supply is required for each water heater, solar controls interface unit, optional remote monitoring unit for interfacing with a building management system (BMS). Supply is 230 volt, 50Hz, single phase. Wiring external to the water heater, solar controls interface unit, remote monitoring unit and remote display unit must be in accordance with IET regulations and any local regulations which apply.

Wiring must be completed in heat resistant cables, and mains supply cables should be a 3-core cable, size 1.00mm<sup>2</sup>. External fuses should be 6 Amp.

## Remote Enable

Each water heater has the facility for receiving a remote enable signal to control the combustion heating circuit of the water heater installation, for connecting external controls such as remote time clocks or BMS, where the water heater's internal time clock program facility is not used.

## Programmable Timer-Controlled Pump

Each water heater has a pump power output that can be co-ordinated to operate in tandem with the water heater anti-legionella program to start the system recirculation pump and optional top-to-bottom de-stratification pump. Wiring is not provided.

## Local Bus Communication Cables

Communication between the water heater, solar controls interface unit, optional remote display and optional remote monitoring unit is via a local 2-wire communication bus. The bus circuits operate at low voltage and should be completed using the 2-core cables provided where possible.

The length of the 2-wire bus communication cable between the water heater and solar control interface unit is approximately 5m, and between the solar controls interface and remote monitoring unit is approximately 2m. The 2-wire communication cable for the remote display is not HHL supply.