

USER WIRING (Cont.)

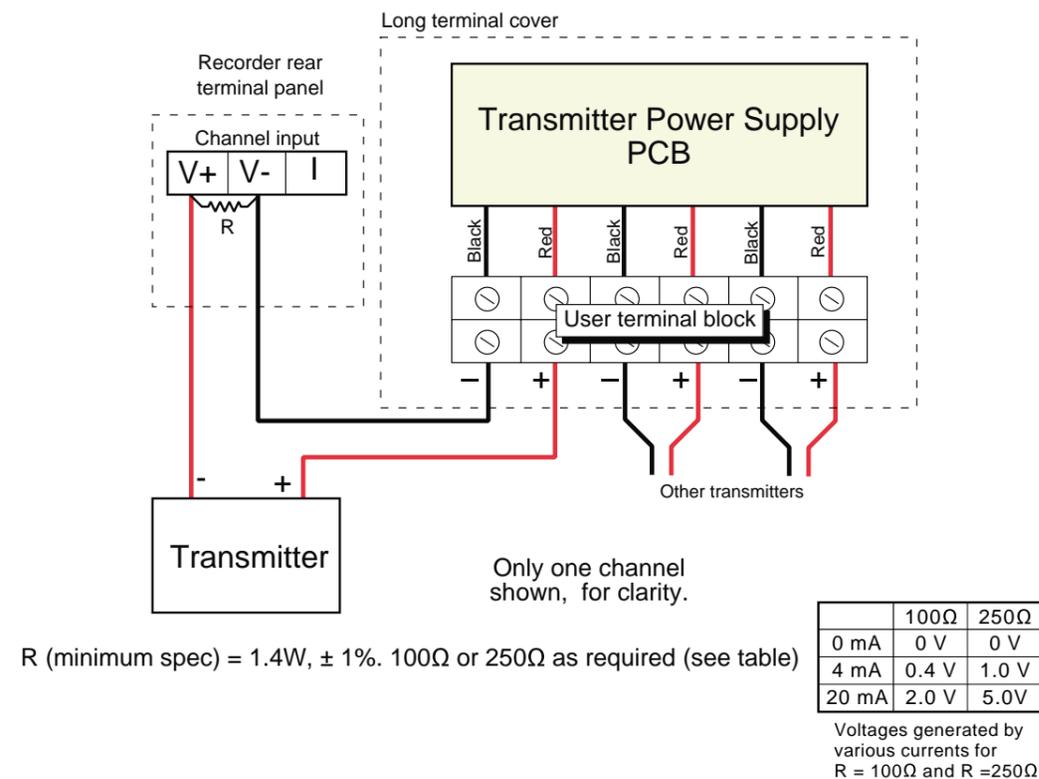


Figure 5 Application wiring



EUROTHERM

# Isolated transmitter power supply

## Models 5100e / 5100V

### INTRODUCTION

This option consists of a circuit board, terminal block and suitable wiring inside a long terminal cover at the rear of the recorder. The board supplies three mutually isolated dc supplies (nominal 25 Volts) each of which is intended to power a single 0 to 20mA or 4 to 20 mA current loop.

The circuit board is protected by a 20mm anti-surge (type T) fuse, the value of which depends on the supply voltage as shown in the table below.

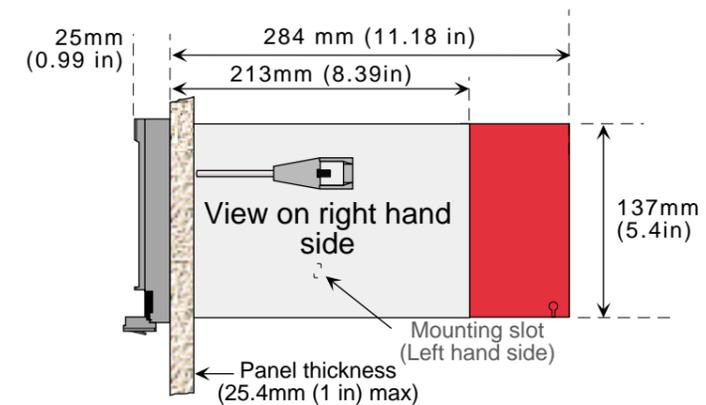
Access to the output wiring and to the fuse is achieved by isolating the recorder from mains power and opening the terminal cover (after removing its securing screw). The process is fully described below.

Supply voltage	Fuse rating	Part Number
110V ac	100 mA	CH050012
120V ac	100 mA	CH050012
220V ac	63 mA	CH050630
240V ac	63mA	CH050630

### SPECIFICATION

#### Physical

The long terminal cover adds 71 mm (closed) or 186 mm (open) to the back-of-panel length of the recorder, as shown below. Otherwise the recorder dimensions are as given in the recorder user guide.



#### Safety Isolation

Isolation (dc to 65Hz; BS EN61010) Installation category II; Pollution degree 2.  
 Channel to channel: 100V RMS or dc (double insulation).  
 Channel to ground: 100V RMS or dc (basic insulation).

#### Installation category II

The rated impulse voltage for equipment on nominal 230V ac mains is 2500V.

#### Pollution degree 2

Normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation shall be expected.

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### ACCESS TO THE USER CONNECTIONS/FUSE

- 1 Isolate the recorder from the supply voltage.
- 2 At the rear of the recorder remove the terminal cover securing screw (figure 1), taking care to retain it for use in re-assembly.
- 3 Open the cover to reveal the circuit board, user connections etc. (figure 2)

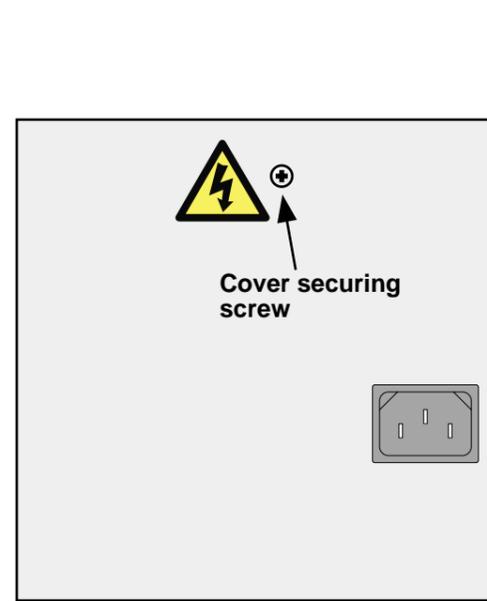


Figure 1 Retaining screw location

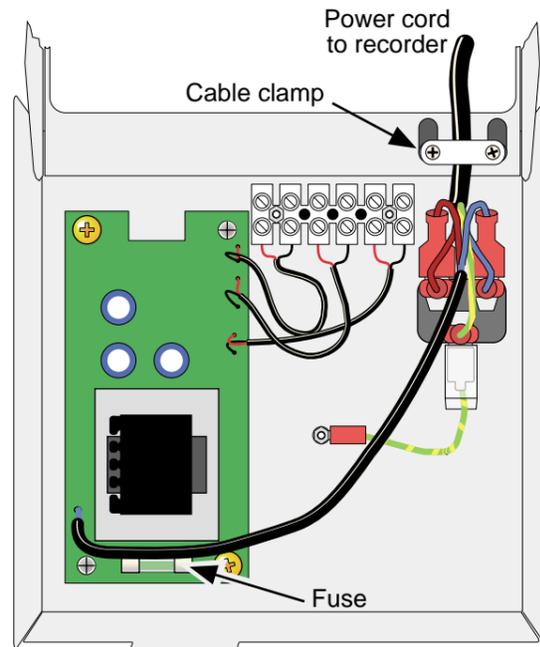


Figure 2 Inside the terminal cover

- 4 The fuse is located as shown in figure 2. User wiring to the terminal block (figures 4 and 5) can be carried out now, or the terminal cover can be removed for convenience, as described in steps 5 onwards below.
- 5 Unplug the IEC connector from the rear of the recorder connector panel
- 6 Remove the cable clamp, retaining the fixings for later re-assembly.
- 7 Close the terminal cover, and lift it off, as indicated in figure 3.

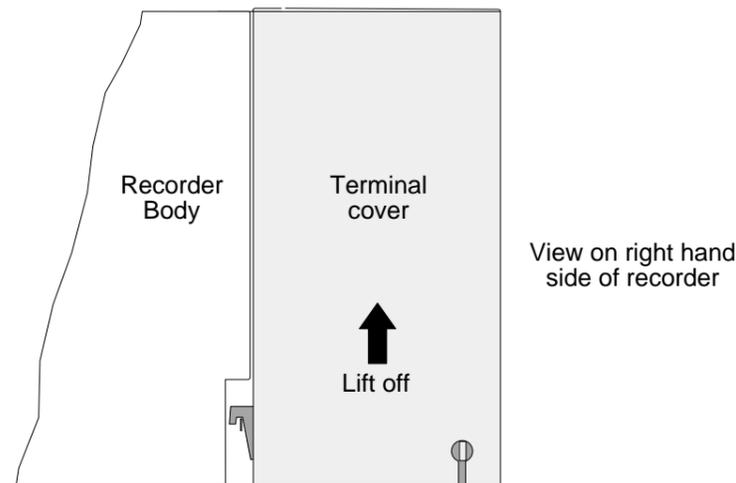


Figure 3 Lift terminal cover off its hinge.

### USER WIRING

Figure 4 shows the terminal block pinout, and figure 5 shows typical applications wiring.

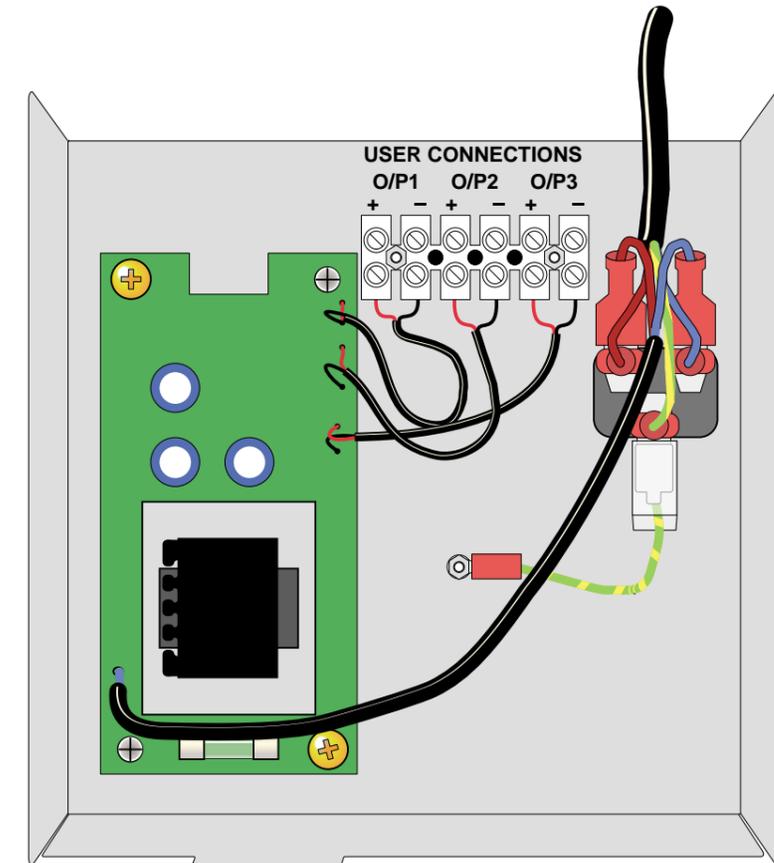


Figure 4 Terminal block wiring