

GENERAL INSTALLATION DETAILS – 5000/RMP & 5000/RMP/RO V4

*** Wiring for EOL & Firing resistors is identical for either N/O or N/C switches – change input Selector switch to suit**

IMPORTANT INSTALLATION NOTES

Ensure the panel is protected via a Breaker protected circuit either locally or at the distribution board and of sufficient current to power the system. The enclosure is suitable for use in environmental conditions up to IP42. Cables should be MEGGERED before any connections are made.

INSTALLATION

The unit is wall mounted with a lockable hinged front door. Connection for the Front Fascia to the motherboards are via pluggable ribbon cables. The front door can be removed for installation by removing the screws fixing the hinged door to the back box.

FIXING OF ENCLOSURE

The back box is hinged to the front door on the left-hand side. The top of the box has 20mm diameter knockouts. The unit is fixed to the wall via 4 off dished fixing holes located in the corners. The mains supply entry is preferred to be located at the last knockout on the right-hand side.

POWER SUPPLY CONNECTIONS

The internal power supply requires the following connections-

: 230v AC supply to the power supply mains terminals : 12v DC standby Sealed Lead Acid Battery to the connection leads provided

INPUT CHANNEL CONNECTIONS

Each channel input has two Terminals to which the monitored ** circuit is connected. The –VE input terminal is common to all inputs.

For N/C inputs move the appropriate selector switch position to the ON position. Each input can be monitored or unmonitored depending upon Input mode selector switch position. The factory default setting for unmonitored inputs is N/O.

ALARM AUXILIARY OUTPUTS

Two Alarm relays each with CHO contacts are provided and are located on the Main Motherboard. The operation of these relays depends upon the Relay Select switch position for each input. Each input can be selected for None, Relay “A” or “B” or both.

ALARM SOUNDER OUTPUT

A monitored Alarm Sounder output is provided and is located on the Main Motherboard and is protected by a Thermal output fuse. The Alarm sounder output will operate under any Alarm input. The Internal Sounder Fault LED will give indication of either N/O or S/C fault.

COMMON FAULT AUXILIARY

A Fault contact is provided and are located on the Main motherboard. This contact will operate on any fault condition including a supply fault. This contact is failsafe (the fault relay is normally energised when the panel has no faults). The Fault contact can be either N/O or N/C which selected by the “ Fault Jumper position ” .

CHANNEL RELAY AUXILIARY (WHEN FITTED)

One set of Alarm contacts are provided for each channel input. These are located on the relay Interface card. Each channel has two terminals to give either N/O or N/C output depending upon the jumper position selected. The contacts will return to their normal position when the panel is reset

SUPPLY CONNECTIONS

- 1.1) Move all input selector switch position to “UNMONITORED “ (no channel input cables connected)
- 1.2) With the Control Panel fixed in its location and all internal/fascia cables reconnected, connect the 230v AC Supply to the power supply mains terminals. Ensure that the other cables not yet connected. Do not touch the printed circuit boards inside the panel.
- 1.3) Switch on the mains supply and check the following :- the Facia Supply Fault LED is illuminated, the Internal buzzer pulse sounds and the Internal Battery Fault LED (Power Supply) is illuminated
- 1.4) If any other conditions are indicated, check that Input Select Switches are in their correct position
- 1.5) Connect the 12v DC Standby battery and check the following:-the Facia Supply Healthy LED is illuminated, the Facia Supply Fault LED is extinguished, all Internal channel Fault LED's are extinguished, the internal buzzer stops and the internal Supply ON LED is illuminated on the Power Supply. Under normal condition the Green Fault Relay LED will now be illuminated
- 1.6) Switch off the 230v Supply and check the following :-the Facia Supply Fault LED is illuminated, the Internal buzzer pulse sounds and the Internal power supply ON LED is extinguished
- 1.6) Reconnect the 240v Supply – The control panel will return to its Normal mode

CHANNEL INPUT CONNECTIONS

- 1.1) Connect channel 1 Input with End of Line and Firing resistors as shown in the wiring schematic – Move mode select to OFF (monitoring mode) & press Reset. If Input to be N/C - move input selector switch to ON before Reset. Panel will be in its normal mode.
- 1.2) Disconnect channel 1 input - Common Signal Facia Fault LED is illuminated, The Internal buzzer pulse sounds and the Internal Channel 1 Fault LED is illuminated (O/C)
- 1.2) Reconnect Channel 1 – The control panel will return to its Normal mode
- 1.3) Short between Channel 1 Input terminals and check the following –Common Signal Facia Fault LED is illuminated, the Internal buzzer pulse sounds and the Internal Channel 1 Fault LED is Flashing (S/C)
- 1.4) Remove the Short between Zone 1 Terminals – The control panel will return to its Normal mode
- 1.5) Operate Channel 1 contact into Alarm condition, check the following – Channel 1 Facia Alarm LED is illuminated. The internal Alarm Buzzer sounds ,the appropriate Relay LED is illuminated and the appropriate Channel auxiliary relay LED is illuminated (when fitted)
- 1.6) Depress the “ Buzzer Mute “ switch , the internal buzzer will silence
- 1.7) Depress the System Reset button (once alarm condition has been removed) – The control panel will return to Normal Mode
- 1.8) Repeat 1.1) to 1.7) for all other Channel inputs used

ALARM SOUNDER OUTPUT (Polarised 12v DC)

- 1.1) Remove the EOL – Front Line/Snr LED will illuminate, Internal buzzer will pulse & internal SNR LED will illuminate – replace EOL
- 1.2) S/C the EOL – Front Line/Snr LED will illuminate, internal buzzer will pulse & internal SNR LED will pulse – remove S/C
- 1.3) When connecting remote Sounder remove EOL and fit in the Sounder. The output will reverse polarity on Alarm - 12v DC

AUXILIARY CONNECTIONS

- 1.4) Connect all External auxiliary outputs and check for correct operation
- 1.5) To Isolate external auxiliary outputs (Alarm only) during routine testing move the internal Isolate switch to the OFF position

LAMP TEST

To test all facia LED's and the internal buzzer, Depress the Lamp Test button, all external LED's will illuminate and the buzzer will sound. Release the button – the panel will return to its normal mode

UNMONITORED N/C INPUT SETUP

The factory default setting for unmonitored inputs is N/O (closing for alarm). To change to an N/C unmonitored input the following Procedure must be carried out:-

- 1) The appropriate input(s) connection to be fitted with N/C link or input
- 2) Press “Reset & Lamp Test “switches at the same time. Release Reset switch – Release Lamp Test switch
- 3) The appropriate Unmonitored “ Alarm “ LED's will illuminate (including N/O inputs)
- 4) Each “Alarm” LED will then extinguish in turn. When all “Alarm” LED's are off the Input Modes have been set

ENGINEER'S FACILITIES

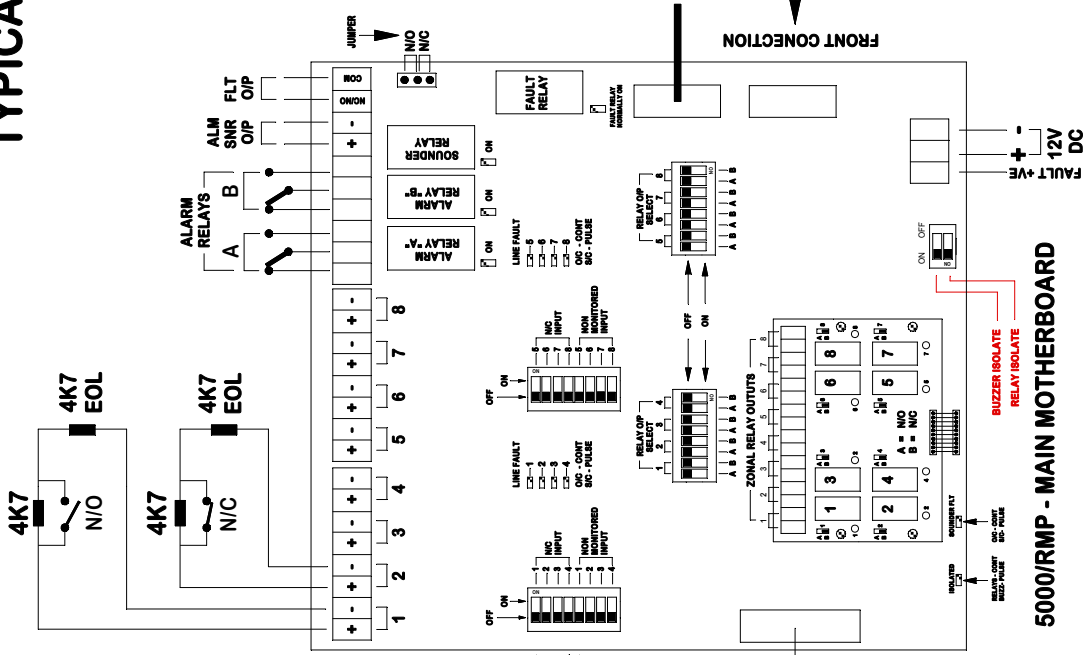
The following facilities should only be used by Commission and Service Engineer's.

- 1) The buzzer can be isolated by moving the DIL switch position 2 to the **OFF** position. The Front Supply Fit/Output Isolate LED will illuminate and The Internal Isolate LED will pulse (Press Reset Switch after Buzzer Isolate DIL switch moved for facility to be active)
- 2) The Output Relays can be isolated by moving the DIL switch position 1 to the **OFF** position. The Front Fit/Output Isolate LED will illuminate and The Internal Isolate LED will illuminate

TYPICAL 5000RMP V4 PANEL WIRING SCHEMATIC

THIS PANEL WORKS AT 12V

FOR UNUSED INPUTS -
SET INPUT SELECTOR SWITCH
TO NON MONITORING



FOR N/C INPUT
MOVE TO "ON" -
POSITION

FOR NO MONITORING
INPUT MOVE TO "ON" -
POSITION

20 X 5 CERAMIC FUSE
1 AMP TIME DELAY

230V AC INPUT

L N E

ⓐ — MAINS ON
Ⓨ — BATTERY FAULT

12 V BATTERY
INPUT
+ -

5000RMP - POWER SUPPLY

TO FIT RELAY CARD PUSH FIT ONTO PLASTIC
SPACERS LOCATED ON MOTHERBOARD

10 WAY CABLE CONNECTION
FOR RELAY CARD

RELAY SELECT SWITCH
MOVE TO "ON" POSITION
FOR RELAY TO OPERATE

5000RMP - SLAVE MOTHERBOARD

5000RMP - MAIN MOTHERBOARD

NOTE:
THE FACTORY DEFAULT FOR "NON MONITORING" INPUT IS FOR NORMAL O/C INPUTS
FOR NORMAL N/C INPUT SEE "N/C SETUP" DETAILS IN THE GENERAL INSTRUCTIONS

DRG REF : 5000RMP-V4 MANUAL SCHEMATIC " C "