

Battery Backup DC Control System P1000FC

For Use with Gravity
Failsafe Fire Curtains



Important Information on the P1000

In the event of a site having no permanent mains supply it is still possible to set up and commission the curtain.

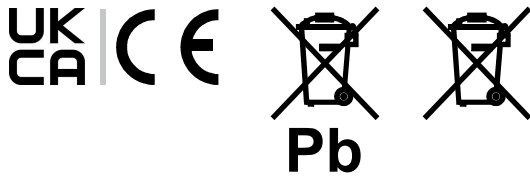
The P1000 has a built in battery pack which is capable of operating the motor without mains being available.

Where it is known beforehand that a permanent mains supply is not available, before visiting site the P1000 should be given a full charge for approx 7 hours. To do this connect a temporary mains feed and fit the battery fuse. Once charge has been completed remove the battery fuse.

Useful Information P1000

Input Voltage	90 - 264V ac	Frequency	47 - 63Hz
Input Current (Typ.)	2.5A/115VAC 1.3A/230VAC		
Output Voltage	24V DC	Output Current (Max)	6.3A
Battery Backup	2 x 12V 3.2Ah Lead Acid (NP3.2-12)		
Working Temp	-5 to +50C	IP Rating	IP50
Working Humidity	20-95% RH Non Condensing		

CAUTION This equipment is to be installed and serviced by qualified personnel only. Refer to the installation manual for further information.



PMaC P1000 Description of Operation

The P1000 control system is designed for the operation of gravity failsafe smoke and fire curtains. The panel monitors alarm inputs from either the building alarm system and or localised detectors for smoke and heat, which when activated, closes the curtain to a fire safe position, sealing off the area from smoke or fire.

The fire curtain should not be considered as a “door” for day to day operation but a fire safety device which is maintained in the fully open “standby” position.

The panel operates from 24V DC and uses a switch mode PSU as the primary power source. If the mains fails the integrated battery back up batteries power the unit.

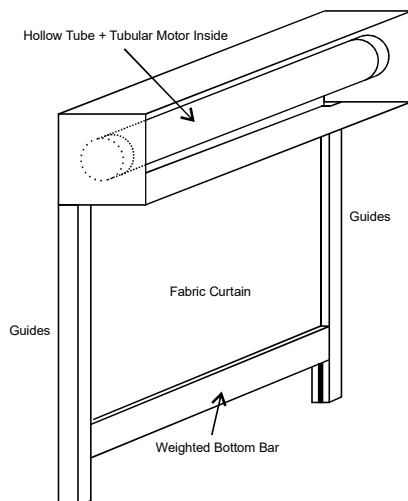
Failure to reinstate the mains supply within 30 minutes will result in the system automatically closing the curtain to the deployed position.

Whilst the primary power supply is present, the battery condition is automatically tested every hour at 110% FLC.

The curtain may be opened and closed by the integral key switch on the lid of the enclosure.

The curtain assembly briefly comprises the following:

- A tubular motor consisting of a planetary gearbox, 24V brushed motor, 24V power on electromagnetic brake, and a limit switch assembly for positional feedback
- A barrel assembly (hollow tube in which the tubular motor is mounted inside) and a special fireproof fabric which is wrapped around the tube.
- Two vertical guides (fire curtain) in which the edge of the fabric runs. The fabric has special studs on each edge to prevent pulling out of the guides when deployed.
- Two plates attached to the wall and guides (if a fire curtain) to support the barrel assembly.
- A weighted bar attached to the bottom of the curtain fabric.



The fire / smoke curtain is normally held in the fully open position. The specialised gravity failsafe tubular motor has an integrated power ON electromechanical brake which is applied when the curtain is fully open.

In normal circumstances the curtain is driven or closed by gravity to its fire operational position, however as the motor uses a power ON brake, should a fault occur in the control panel or wiring, the brake is released, and the curtain closes with controlled descent via gravity.

PMaC P1000 Description of Operation

Panel Connections

Alarm Input 1 - monitored input with a series 2K2 resistor. If the input detects a short or open circuit the panel interprets this as an alarm activation.

Alarm Input 2 - monitored input with a series 2K2 resistor. If the input detects a short or open circuit the panel interprets this as an alarm activation.

Firefighter access - monitored input to which a SPCO switch is connected with a series 2K2 resistor monitored through the normally closed contact of the switch. When the switch is activated a 1K resistor replaces the 2K2. If the terminals see an open or short circuit then a fault is registered. If the alarm is activated, operation of the Firefighter access will re-open the fire curtain for the duration of the switch activation.

Emergency egress - monitored input to which a SPCO switch is connected with a series 2K2 resistor monitored through the normally closed contact of the switch. When the switch is activated a 1K resistor replaces the 2K2. If the terminals see an open or short circuit then a fault is registered. If the alarm is activated, operation of the Emergency egress will re-open the fire curtain to allow trapped persons to escape.

Battery test input - momentary activation of the test input terminals (closing the connection) will test the battery backup batteries at 110% FLC. A record of the last test is recorded. A test failure is indicated and recorded.

Control inputs - Common, Open and Close terminals provide an input for either a momentary push button or key switch. This is used for general opening and closing of the curtain. The operation can be programmed to be either latching (momentary input) or push to run (continuous operation required - dead mans)
If latching is used, to stop the curtain mid travel, simply activate the opposite running direction briefly.

24V Power input - input from 24V 240W PSU

Battery connection - input from 2 x 12V SLA batteries

Silence alarm input - The panel may have a Silence Alarm switch mounted on the lid (model dependant) Momentary activation of the terminals will silence any audio / visual unit connected to Relay 5 (if Relay 5 is configured to alarm - see setup details) When the alarm input is activated, the curtain will close and Relay 5 will output 24V.

Activating the Silence Alarm facility will turn off the voltage at Relay 5 and silence the AV. The AV will remain silenced unless the Firefighter Access or Emergency Egress is operated, whereupon the AV will sound again.

Safety curtain input - connection for optical safety device (safety beams OSE) which detects any obstruction that may impede the correct operation of the fire curtain.

Activation of this input will not prevent the fire curtain closing upon an alarm activation, however when the curtain is in the ready state (fully open) and an obstruction is detected, after a preset time a fault is registered and an external AV can be used to bring attention to the issue.

PMaC P1000 Description of Operation

Panel Connections

Motor connection - connection for a 7 wire tubular fire motor

- 1 - Limit return
- 2 - Limit return
- 3 - 24V motor armature
- 4 - 24V motor armature
- 5 - 24V electromagnetic brake
- 6 - 24V electromagnetic brake
- 7 - Limit common

AUX output - 24V auxiliary output for powering external apparatus

Relays 1 to 3 - programmable, volt free c/o relays to indicate system information

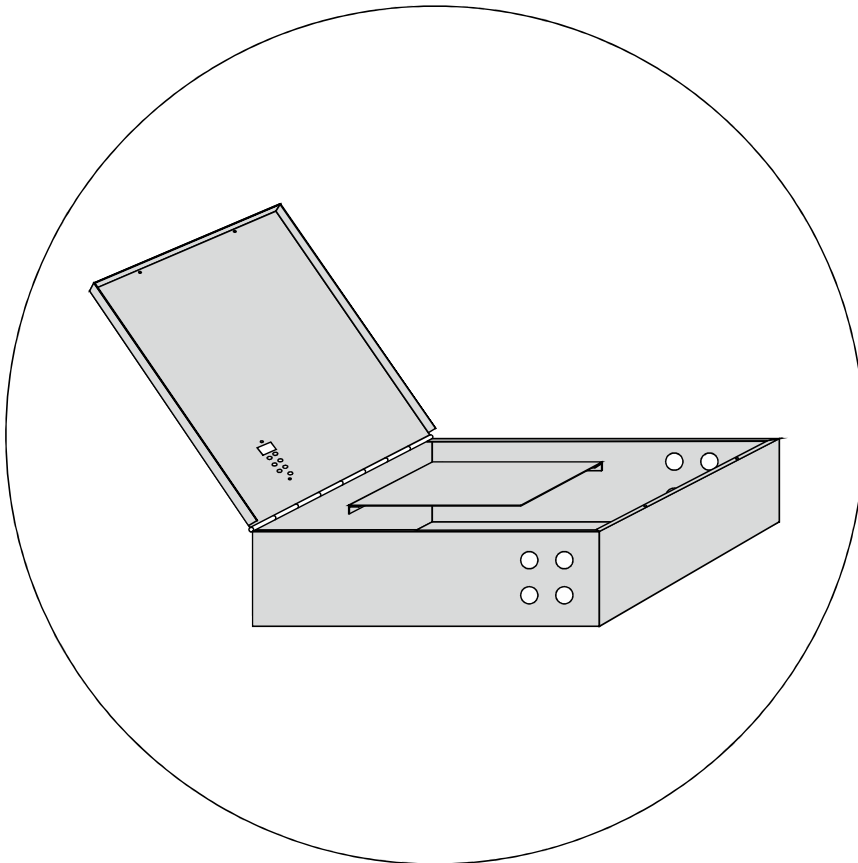
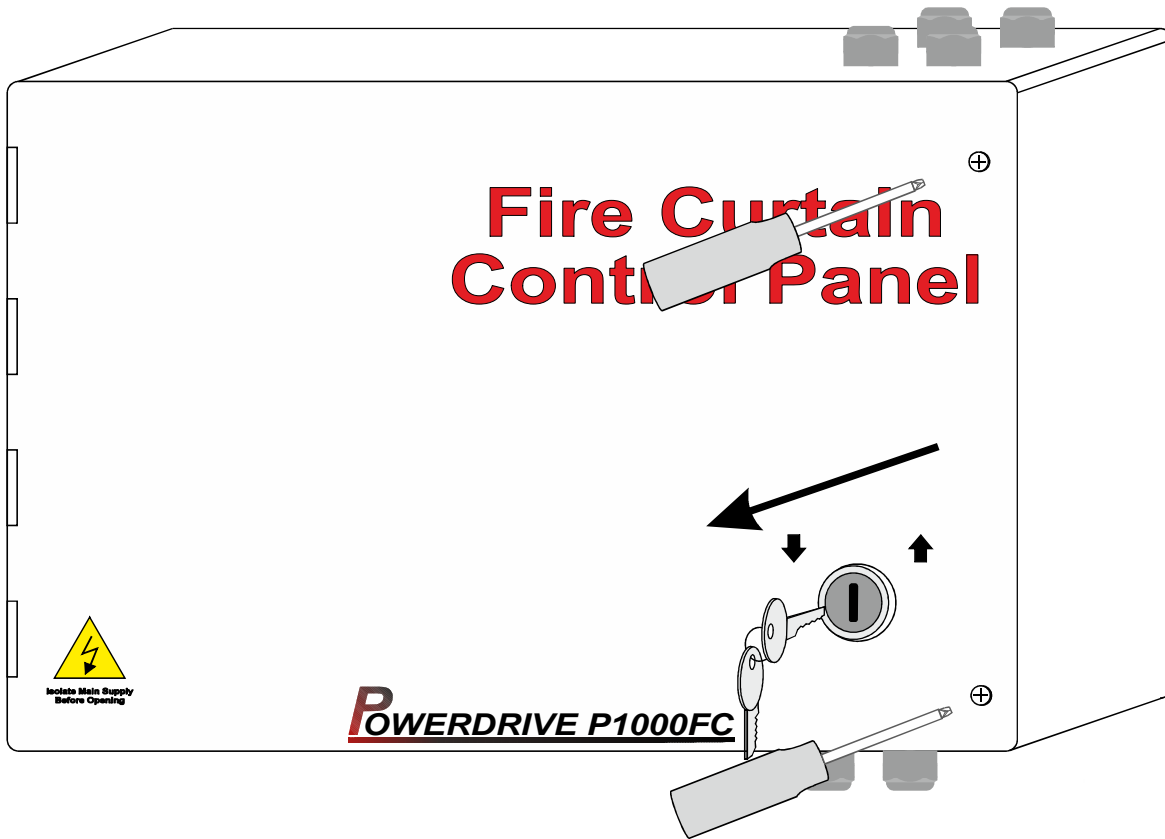
Relays 4 & 5 - programmable, 24V dc output (off to on) to indicate system information. See note on Silence Alarm function.

RS485 network connection - it is possible to network a series of control panels together when used on multiple overlapping curtains. One panel acts as a master unit to which the external control elements are connected. Subsequent slave panels only have motors connected and the motor speeds can be altered in the program to match speeds.

The network is bi-directional so the health of the entire network is constantly monitored.

PMaC P1000 Lid

Remove two M4 screws and hinge open



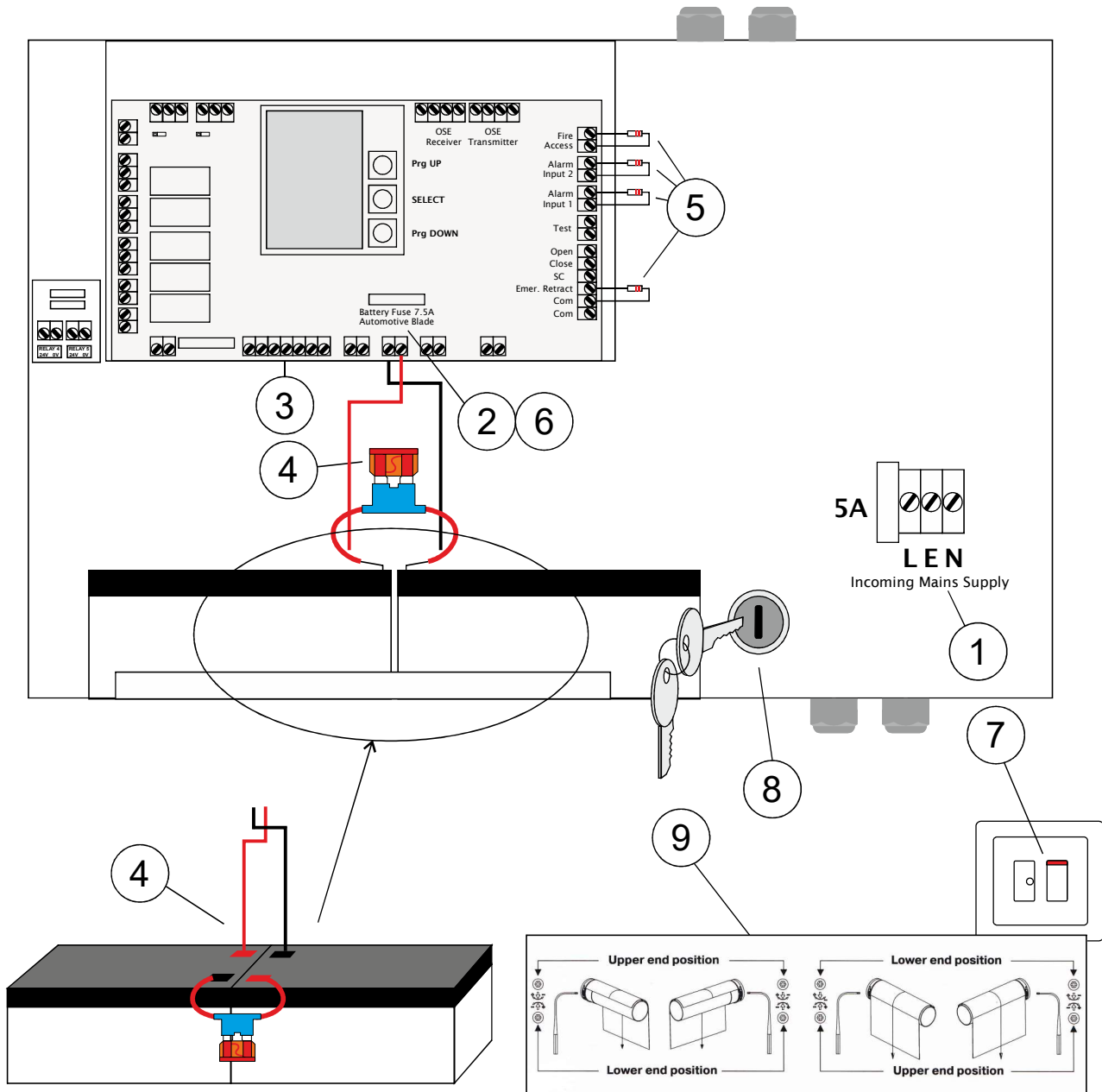
Basic Installation of P1000

All connections to the P1000 should be undertaken with the mains supply turned off and the battery fuse removed. Failure to remove power may result in damage to the equipment.

1. Connect 230V AC to the incoming mains supply terminal block - Fused at 5A. Do not turn on yet.
2. Ensure 7.5A battery fuse is removed from the board and the LCD display is blank.
3. Connect motor to the board. Ensure wire numbers match the terminal numbers.
4. Connect the batteries to the pcb checking correct polarity and join together with the fused link and ensure the 10A battery protection fuse is fitted.
5. Ensure either the monitoring resistors are fitted to the inputs or the monitored devices i.e. alarm input, fire access, emergency retract are fitted (see page 8-14)
6. Fit 7.5A BATTERY fuse. The LCD will briefly display the model number and serial number.
7. Turn on the mains supply
8. Briefly turn the key switch and check the running direction of the curtain matches what the display reads. i.e. Curtain closes = Push To Run Close

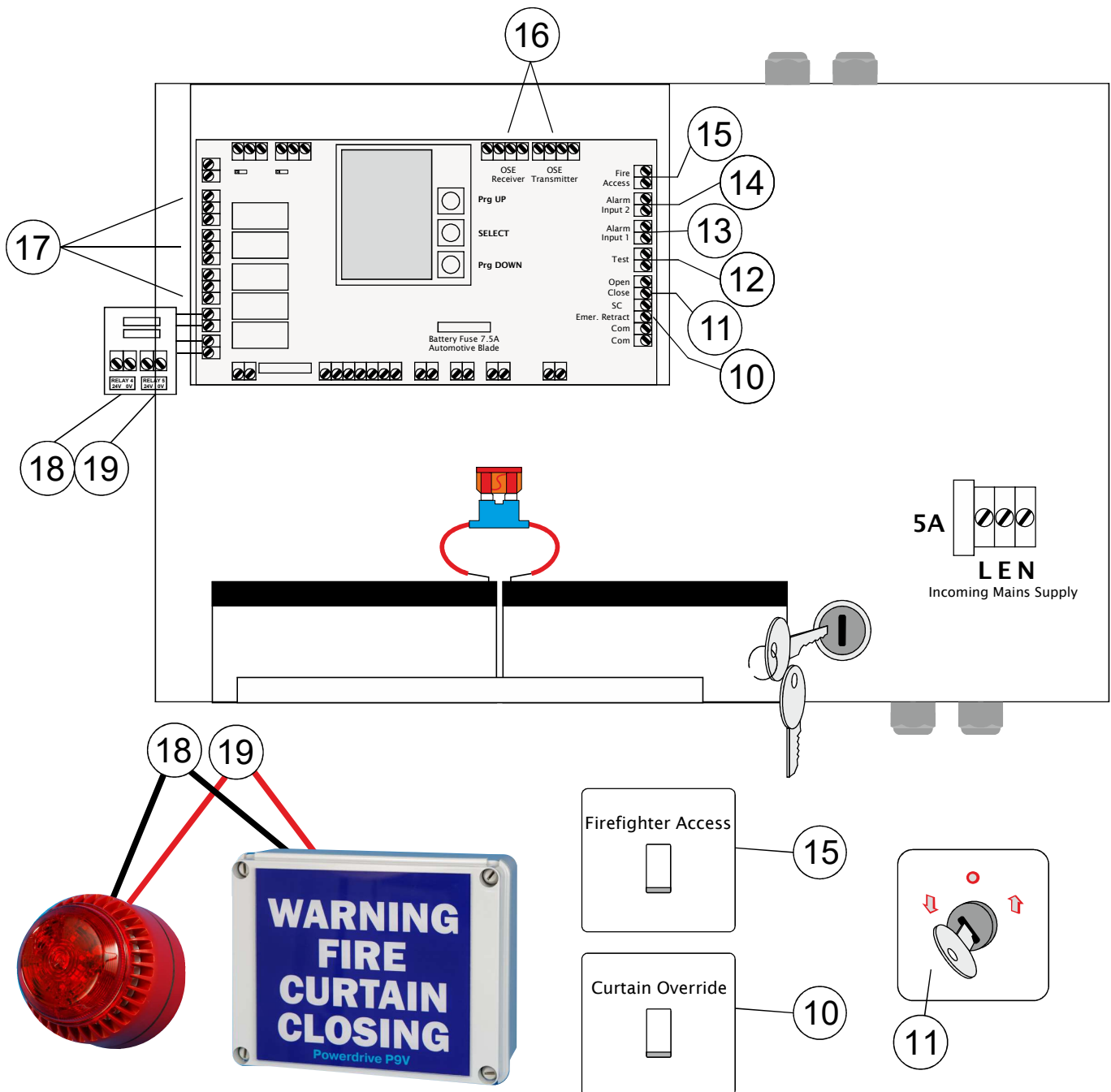
If the running direction is incorrect follow the procedure to swap the Orientation in the menu (see page 25)
DO NOT SWAP WIRES AROUND

9. Set the Open and Close limits ON the motor with the adjuster tool supplied. Do not use a drill to twist the limits. Ensure the bottom limit is set with the bottom bar fully to the floor.

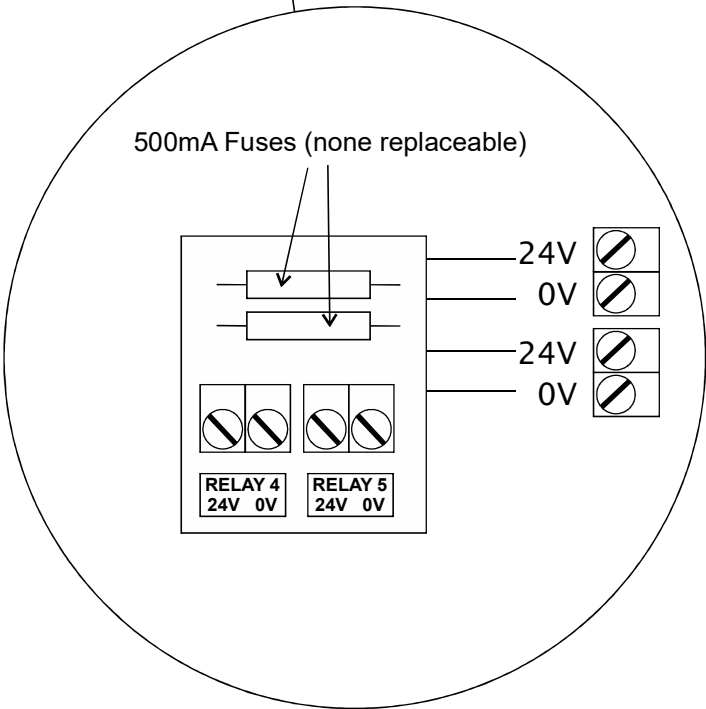
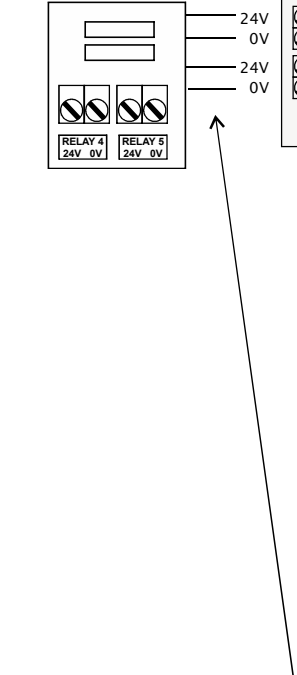
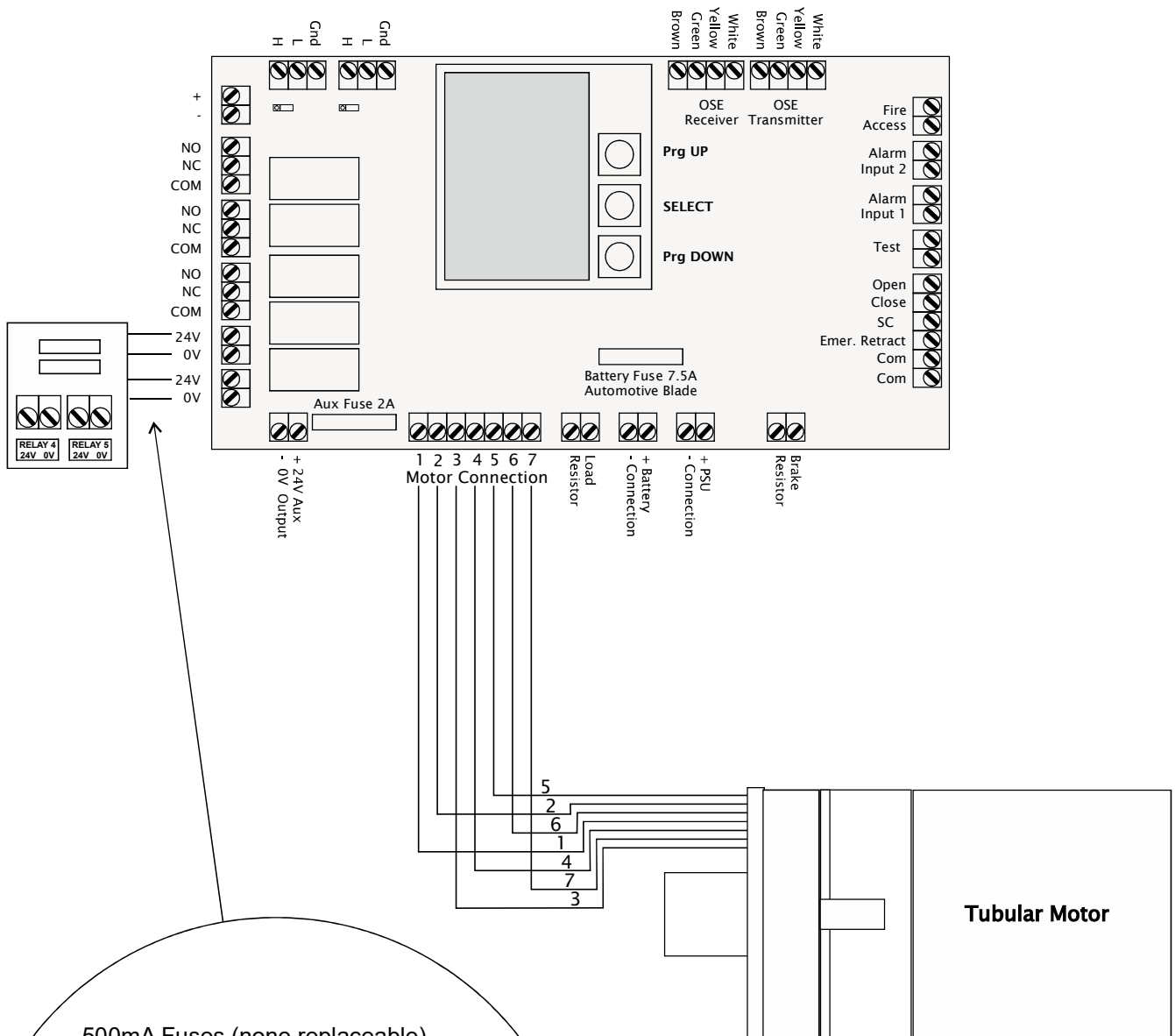


P1000 Connections

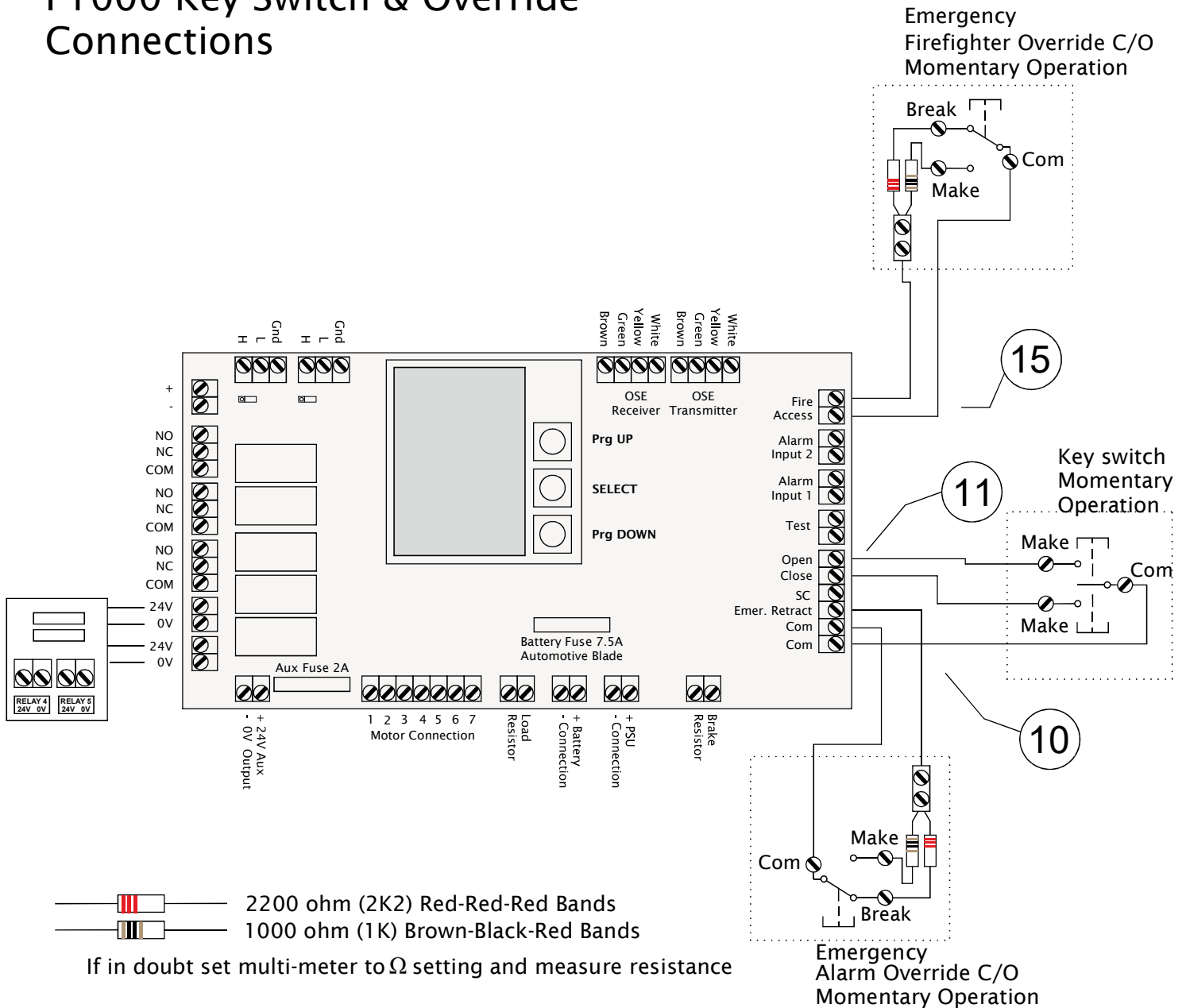
- 10. Emergency retract switch (user escape)
- 11. Key switch connection from lid. To fit external key switch remove existing switch connections
- 12. Test Input
- 13. Alarm Input 1 - Master Alarm
- 14. Alarm Input 2 - Secondary Alarm
- 15. Fire access input (firefighter access)
- 16. OSE Optical beam input
- 17. Volt free c/o relay outputs - programmable
- 18. 24V relay output for AV - programmable
- 19. 24V relay output for AV - programmable



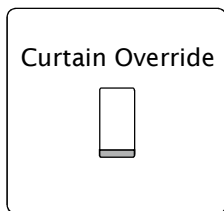
P1000 Motor Connection XL29/16, XL38/12 & XL60/8 ASB BS Motors Only + AV Fuse Connections BS Motors Require No External Stutter Brake



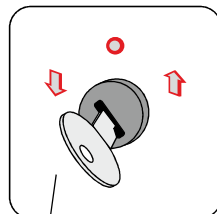
P1000 Key Switch & Override Connections



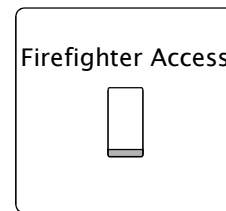
Important - Resistors must be fitted as per the drawings



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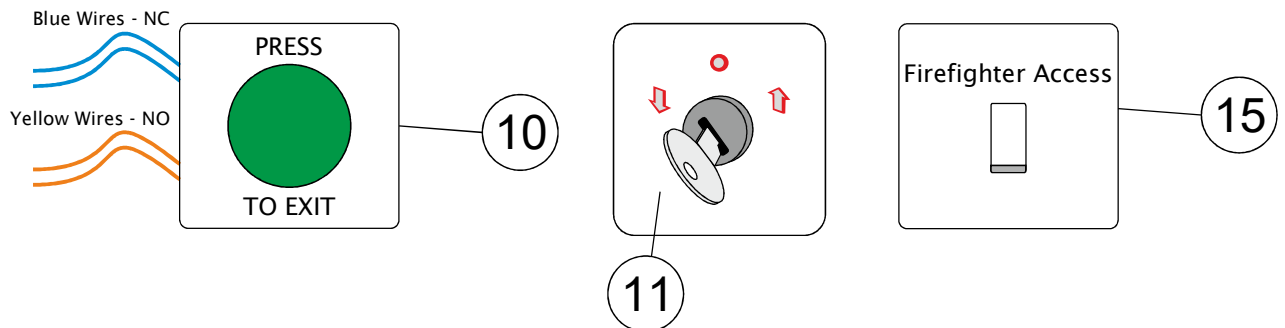
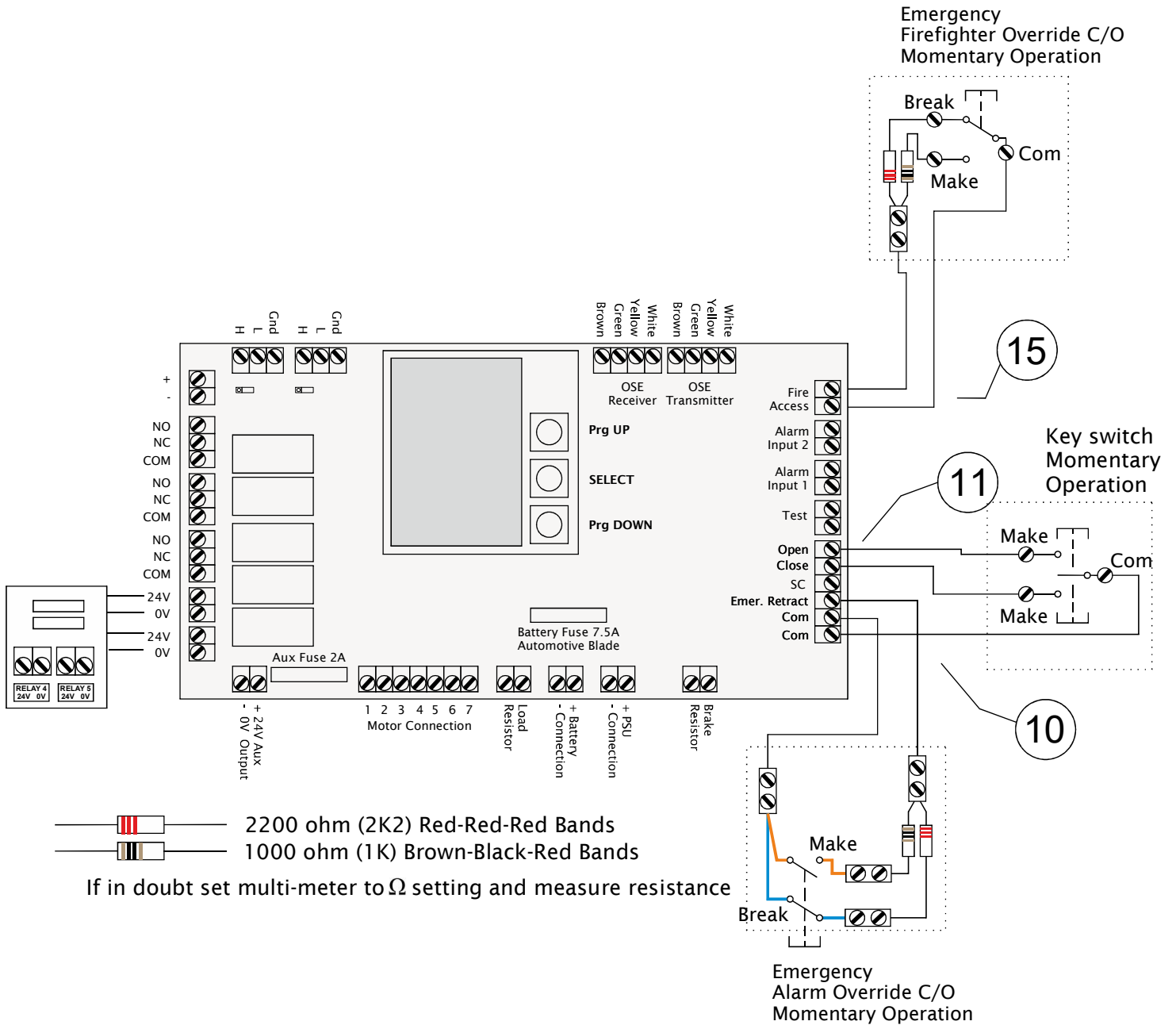


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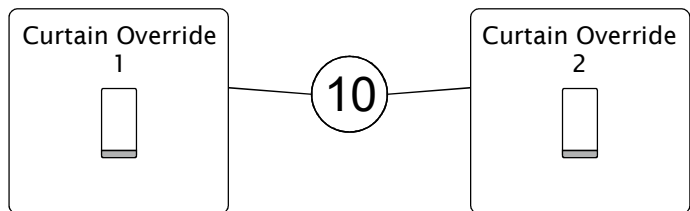
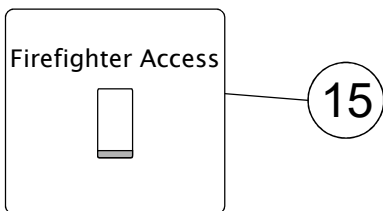
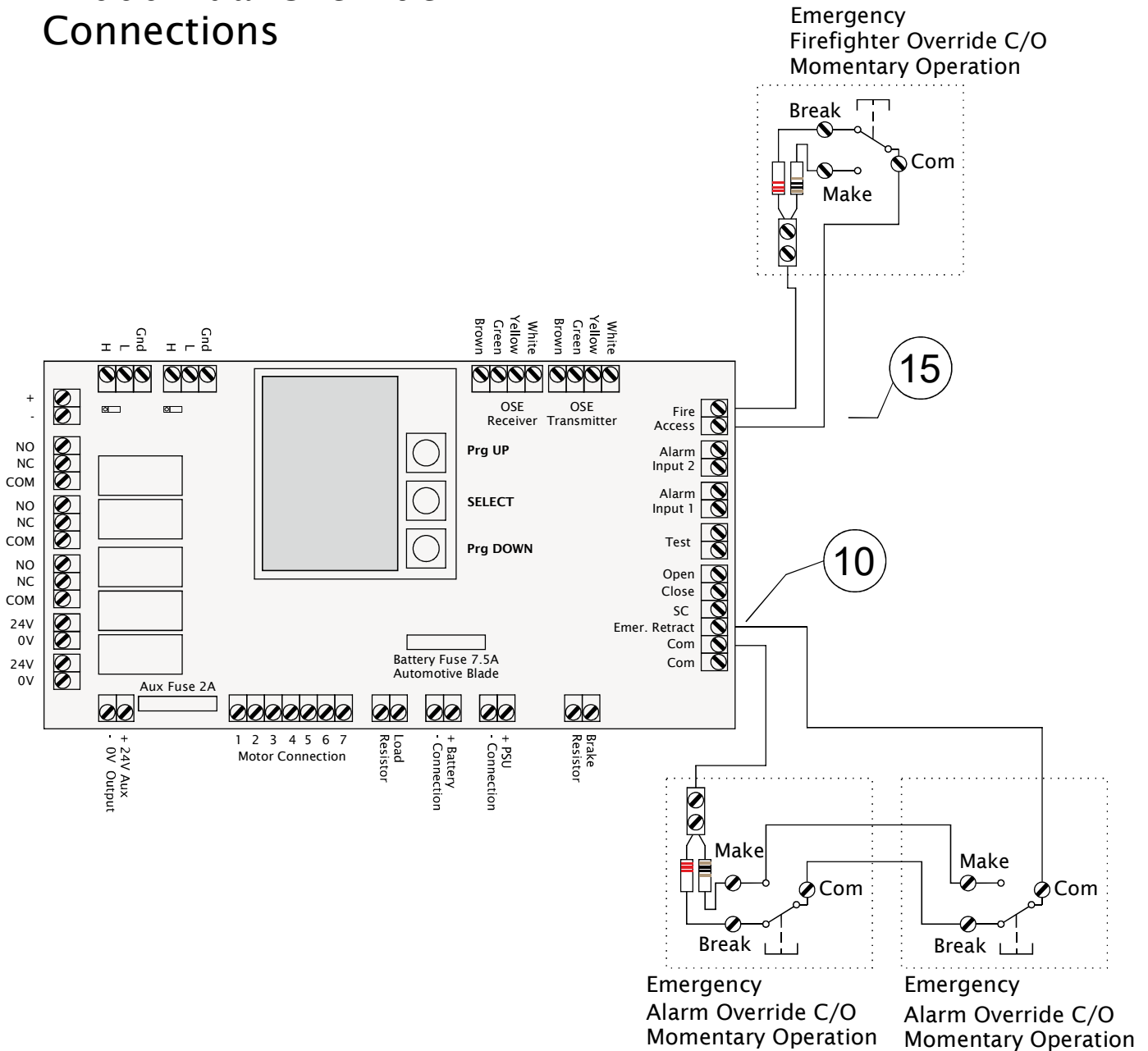
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P1000 Key Switch & Override Connections - Alternative Switch



Important - Resistors must be fitted as per the drawings

P1000 Dual Override Connections

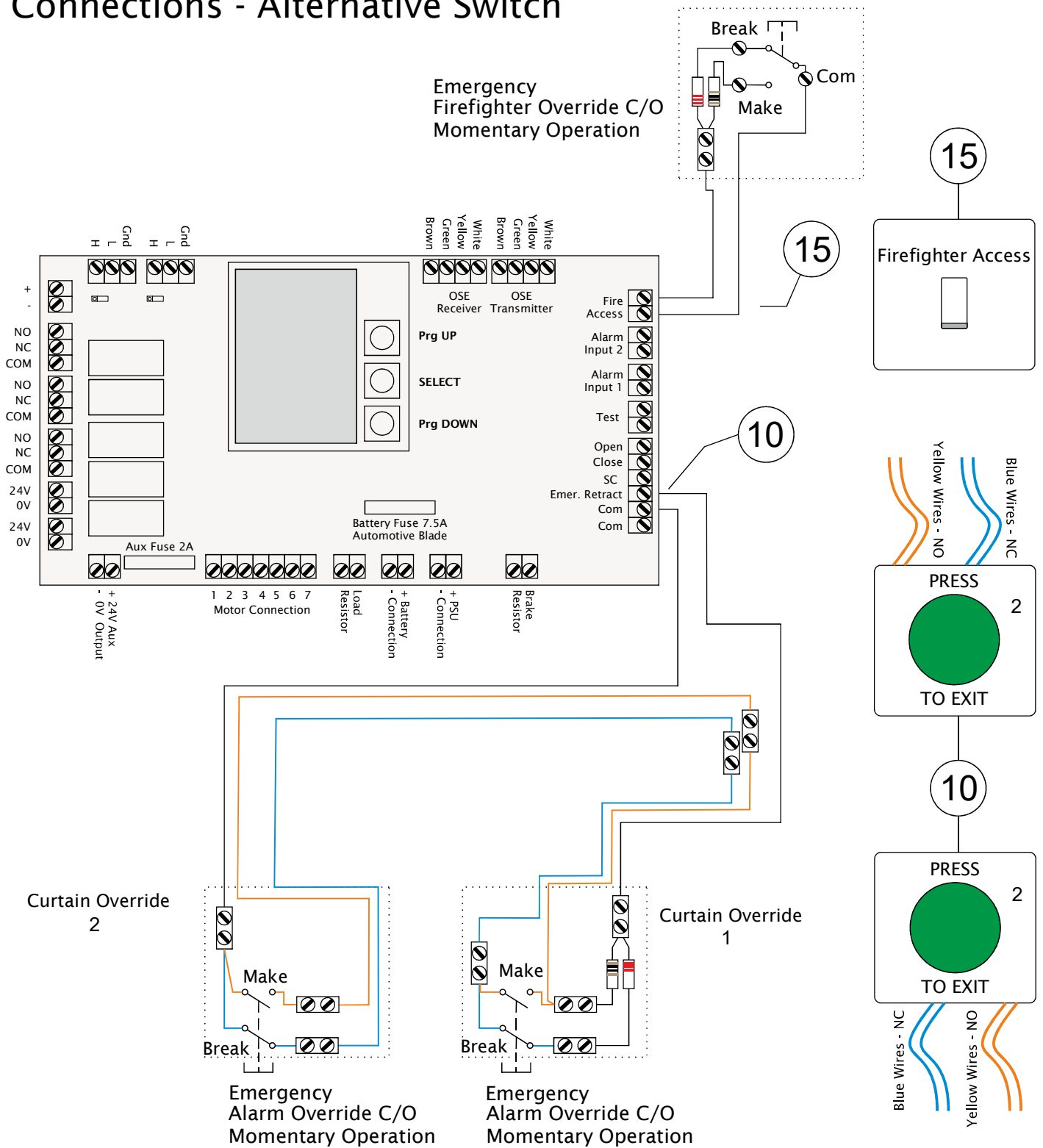


-  2200 ohm (2K2) Red-Red-Red Bands
-  1000 ohm (1K) Brown-Black-Red Bands

If in doubt set multi-meter to Ω setting and measure resistance

Important - Resistors must be fitted as per the drawings

P1000 Dual Override Connections - Alternative Switch

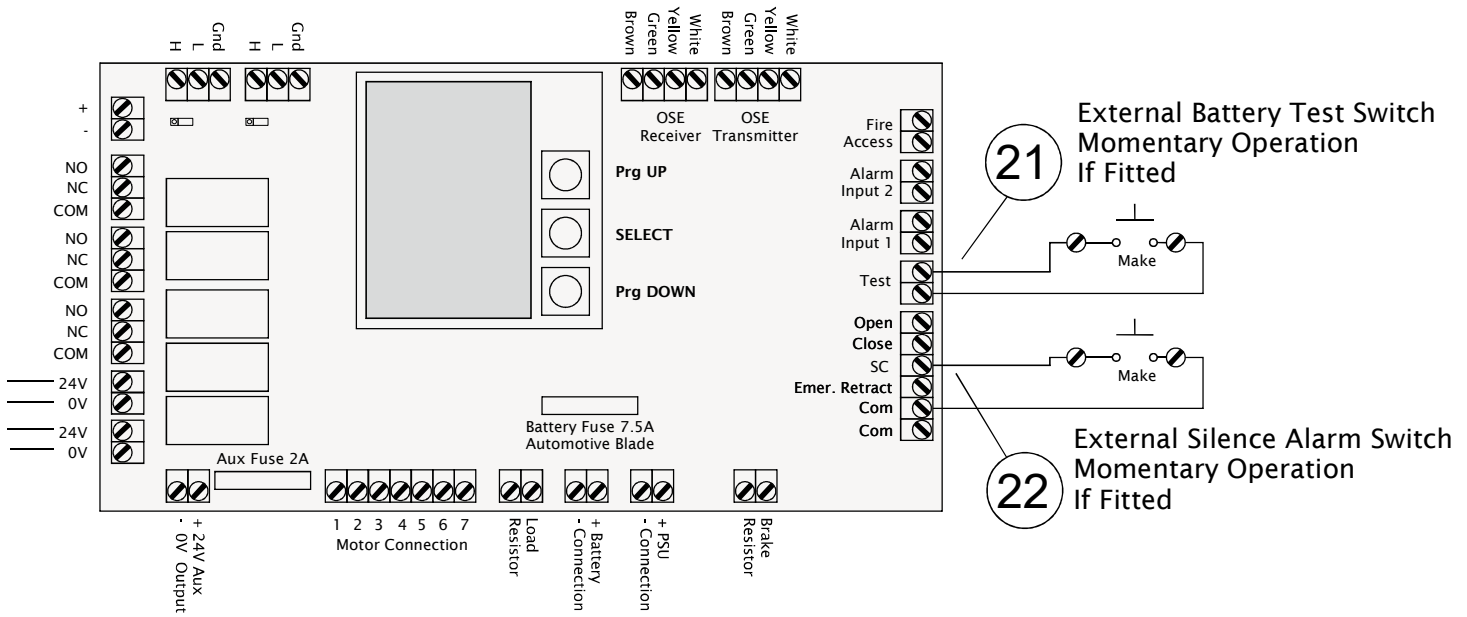


- 2200 ohm (2K2) Red-Red-Red Bands
- 1000 ohm (1K) Brown-Black-Red Bands

If in doubt set multi-meter to Ω setting and measure resistance

Important - Resistors must be fitted as per the drawings

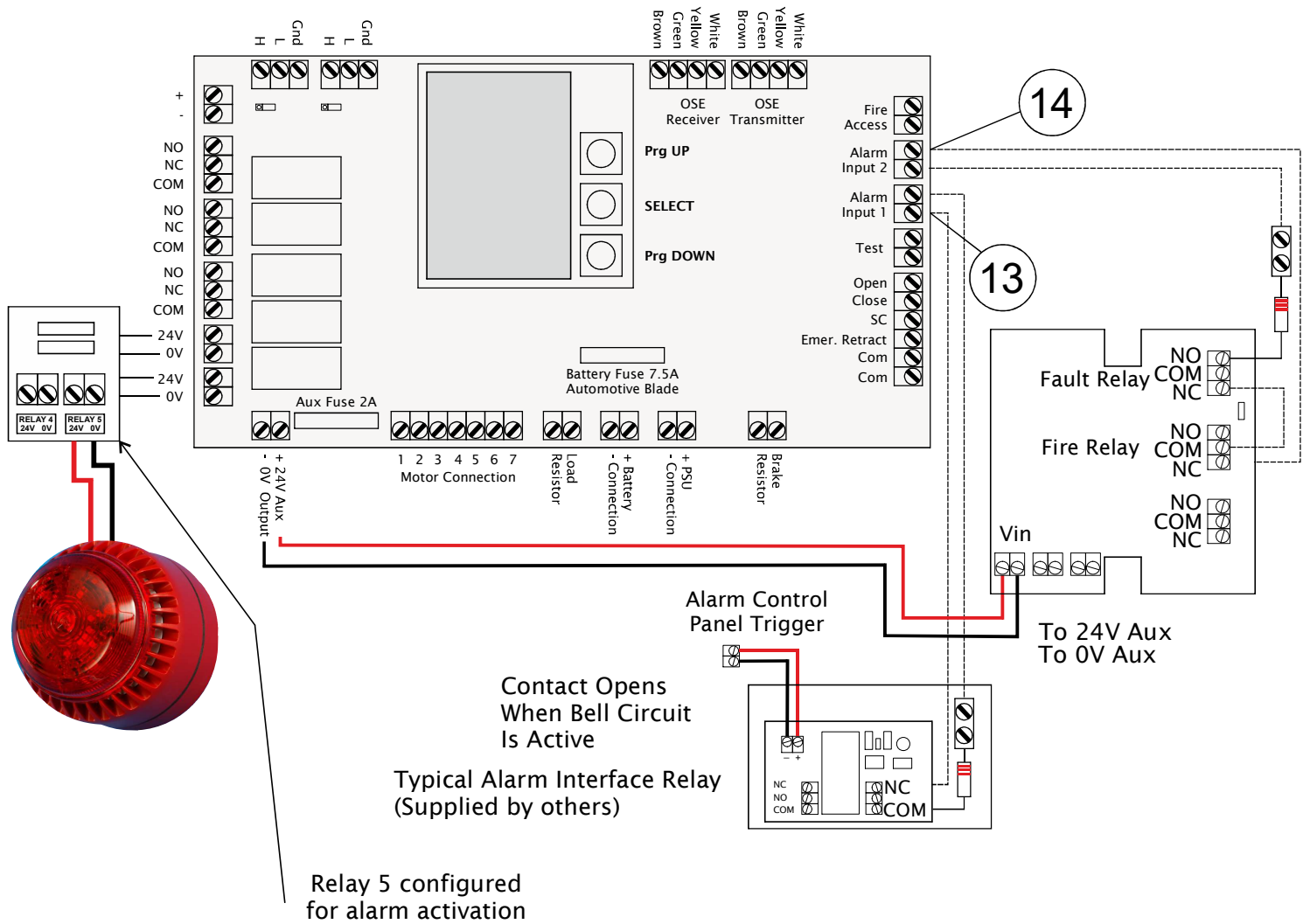
P1000 Battery Test Input & Silence Alarm Input (If Fitted)





21 Battery test input - momentary activation of the test input terminals (closing the connection) will test the battery backup batteries at 110% FLC. A record of the last test is recorded. A test failure is indicated and recorded.

22 Silence alarm input - The panel may have a Silence Alarm switch mounted on the lid (model dependant). Momentary activation of the terminals will silence any audio / visual unit connected to Relay 5 (if Relay 5 is configured to alarm - see setup details) When the alarm input is activated, the curtain will close and Relay 5 will output 24V. Activating the Silence Alarm facility will turn off the voltage at Relay 5 and silence the AV. The AV will remain silenced unless the Firefighter Access or Emergency Egress is operated, whereupon the AV will sound again.

P1000 Alarm Interface, Alarm AV, Smoke / EI413 Radio Link Panel Connection



Important - Fuse protection board must be fitted prior to connection of AV to Relay 4 or Relay 5

-  2200 ohm (2K2) Red-Red-Red Bands
-  1000 ohm (1K) Brown-Black-Red Bands

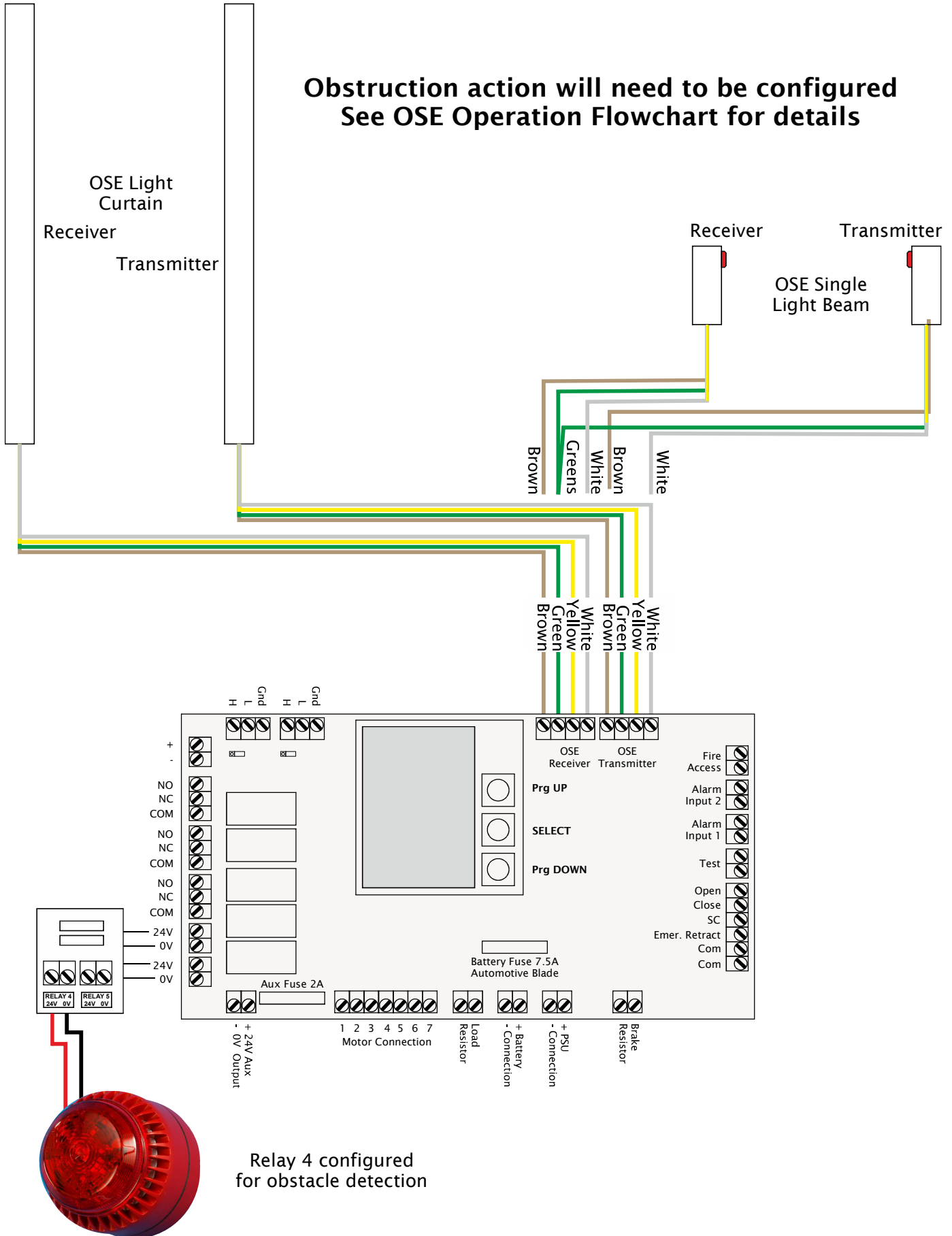
If in doubt set multi-meter to Ω setting and measure resistance

Important - Resistors must be fitted as per the drawings

P1000 Light Curtain or Single Beam OSE Connection Details

Light Curtain or Light Beam 10m Range

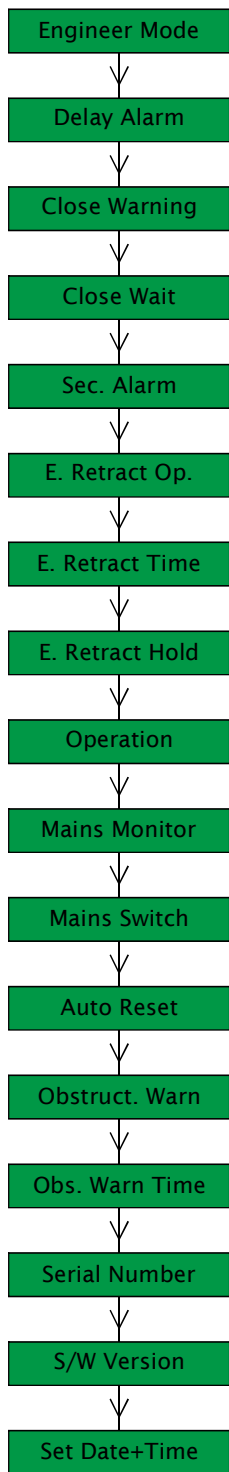
**Obstruction action will need to be configured
See OSE Operation Flowchart for details**



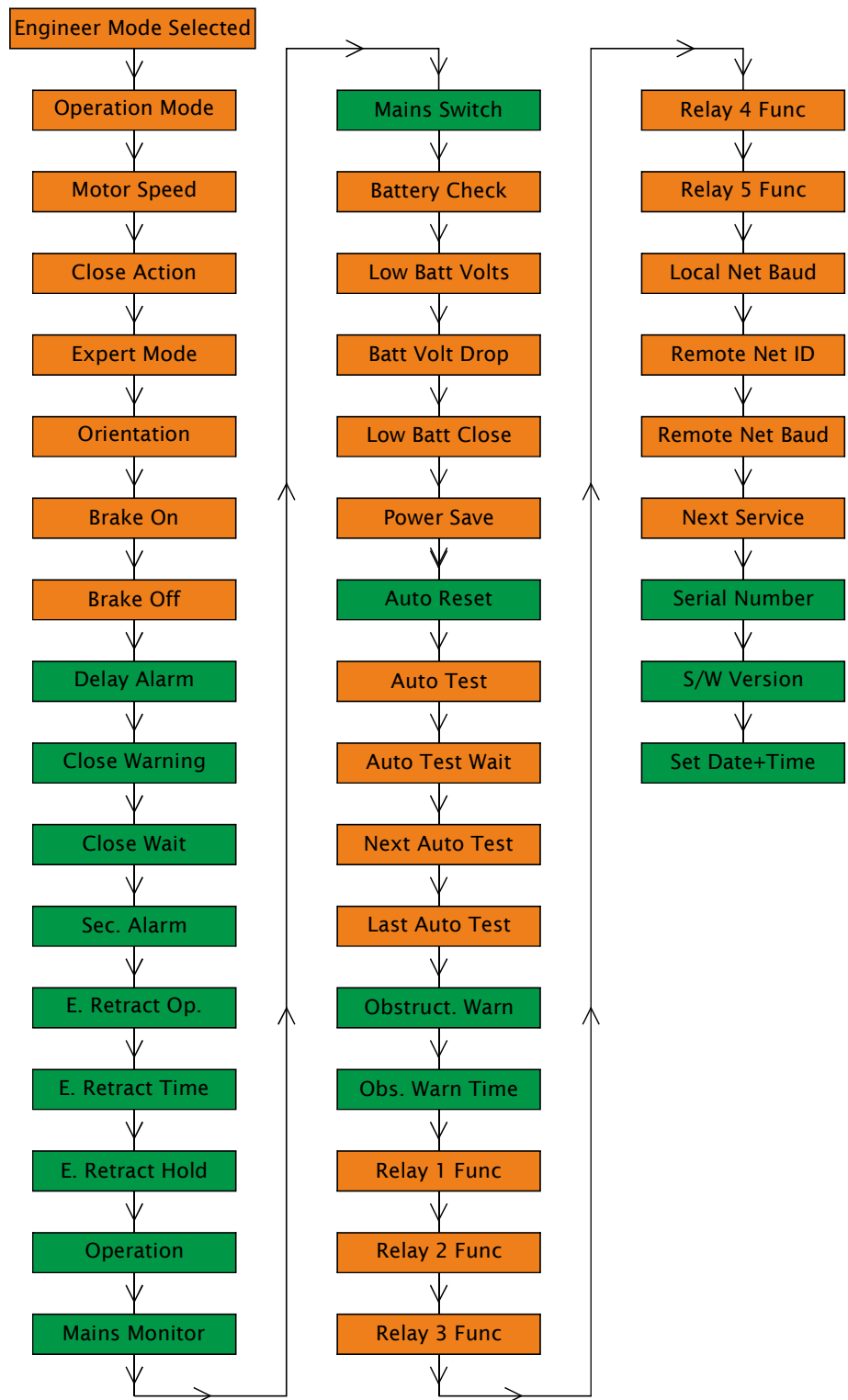
Relay 4 configured for obstacle detection

P1000 Menu Structure

Standard Menu's

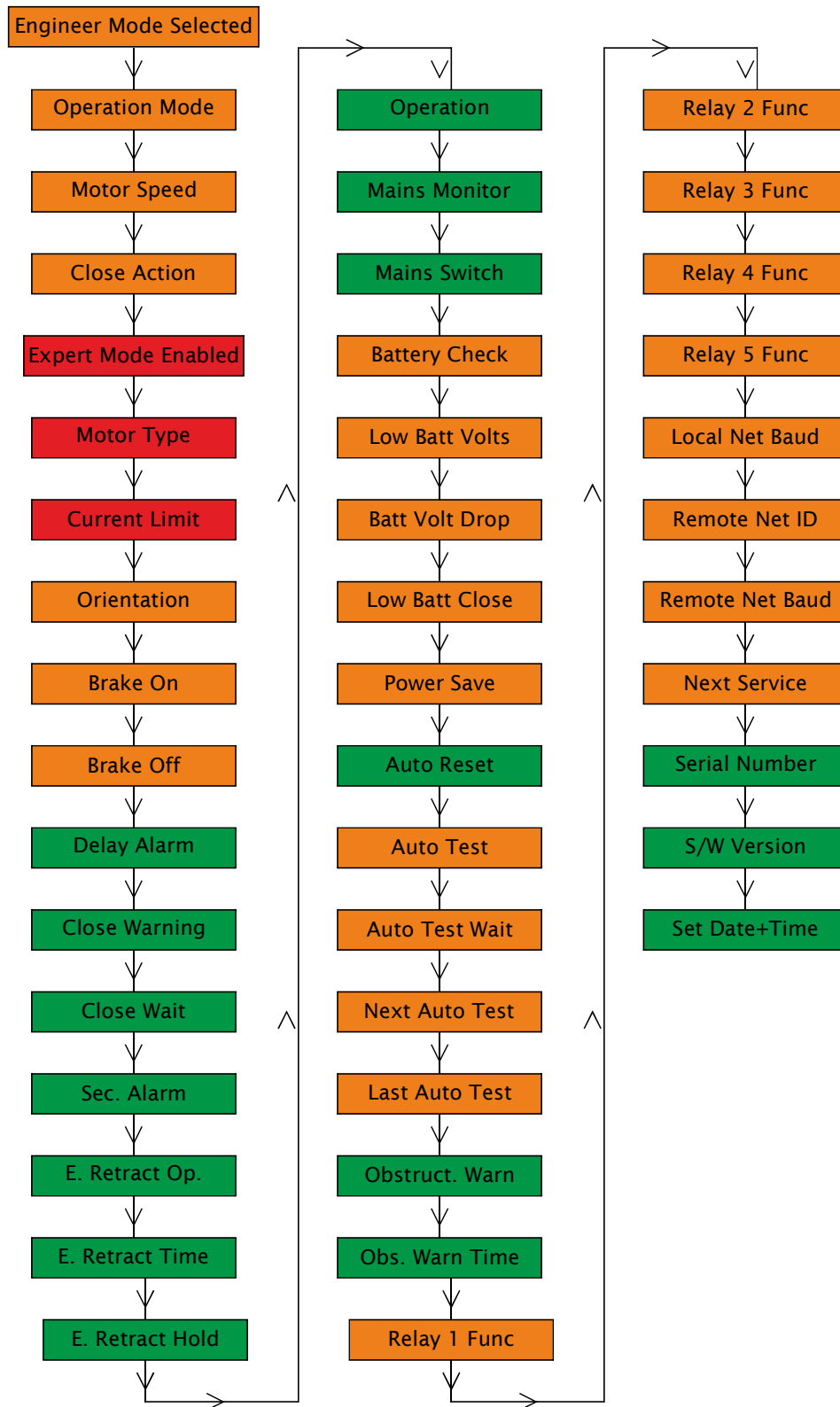


Standard + Engineers Menu's



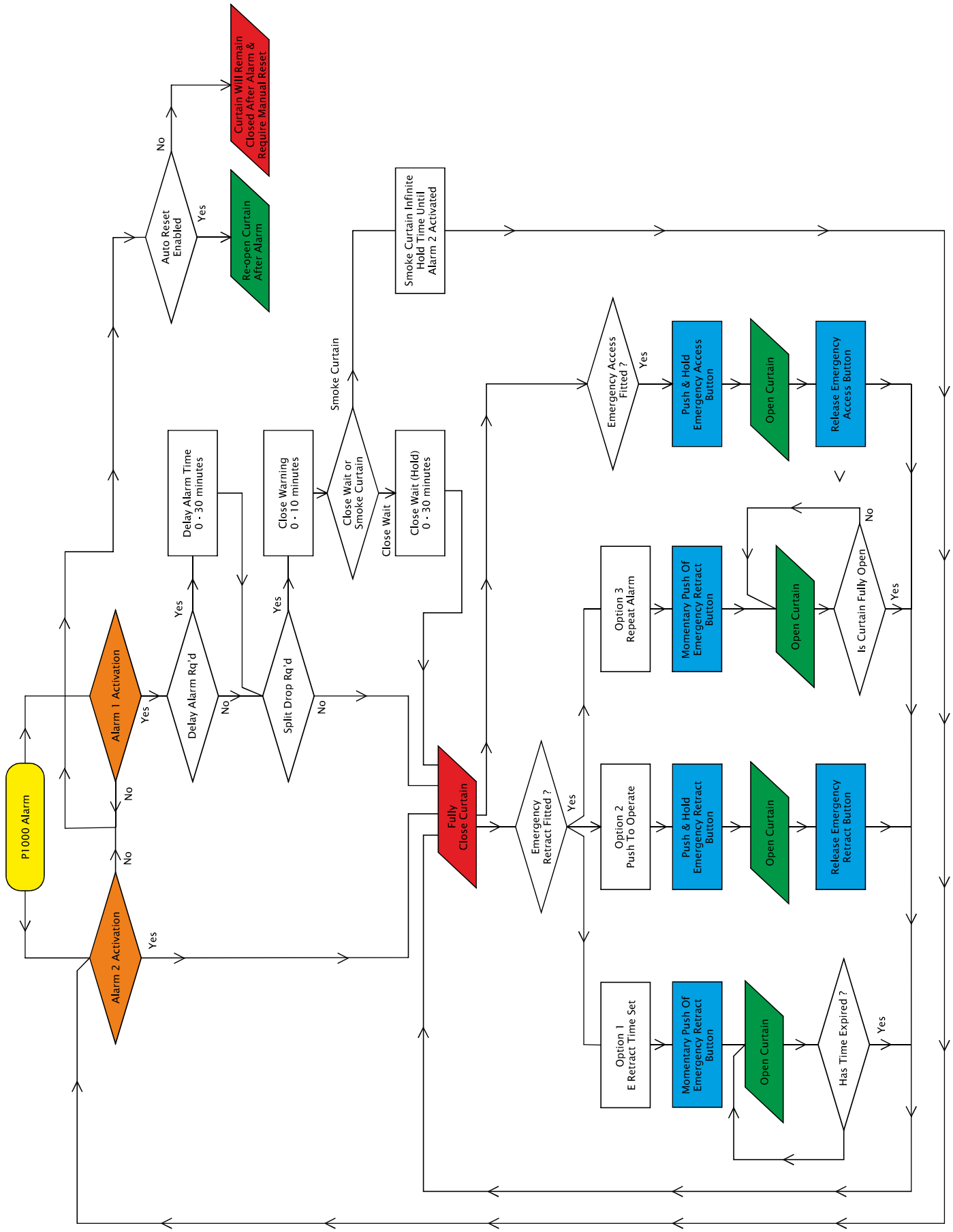
P1000 Menu Structure

Standard + Engineers + Expert Menu's

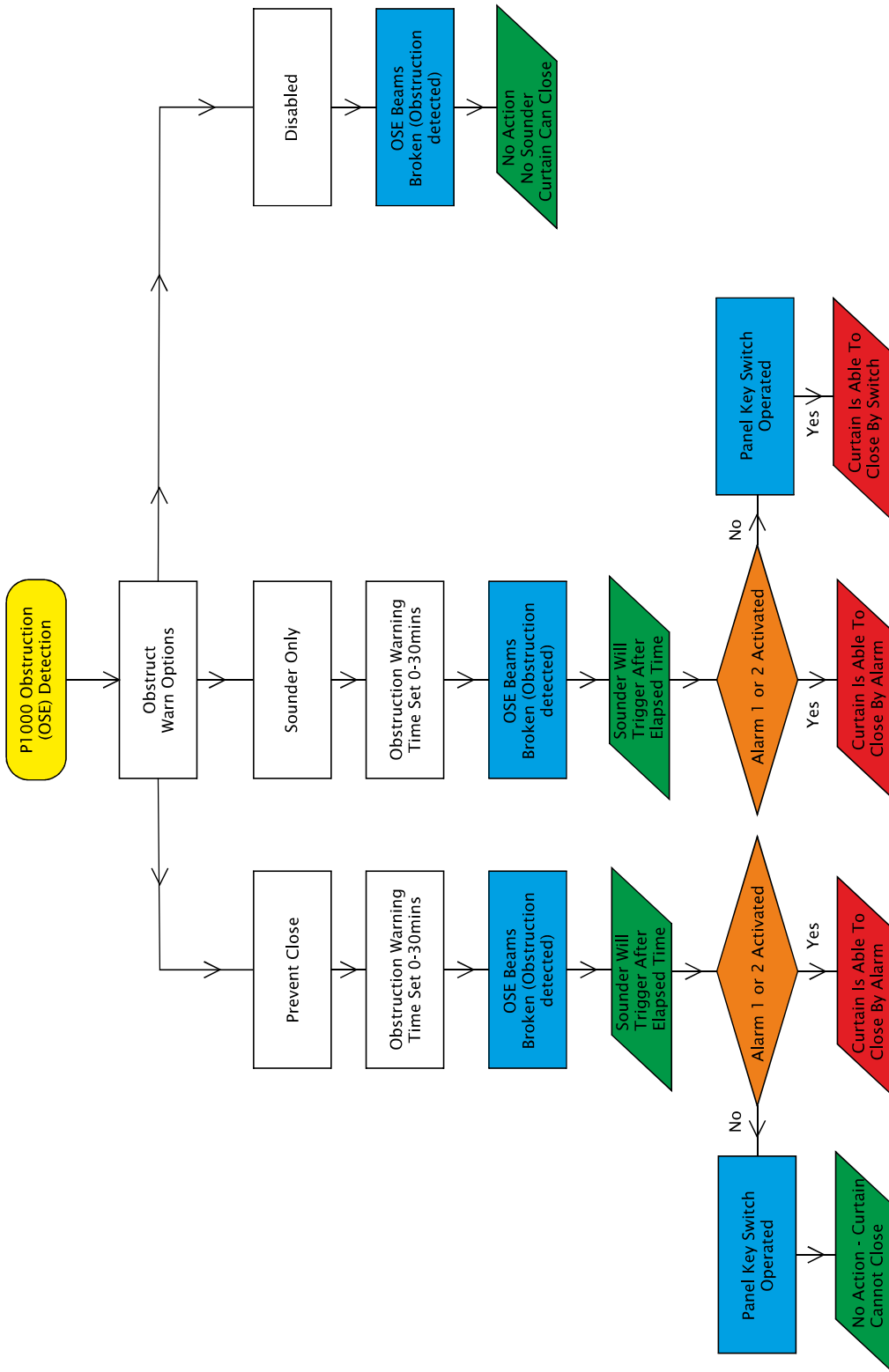


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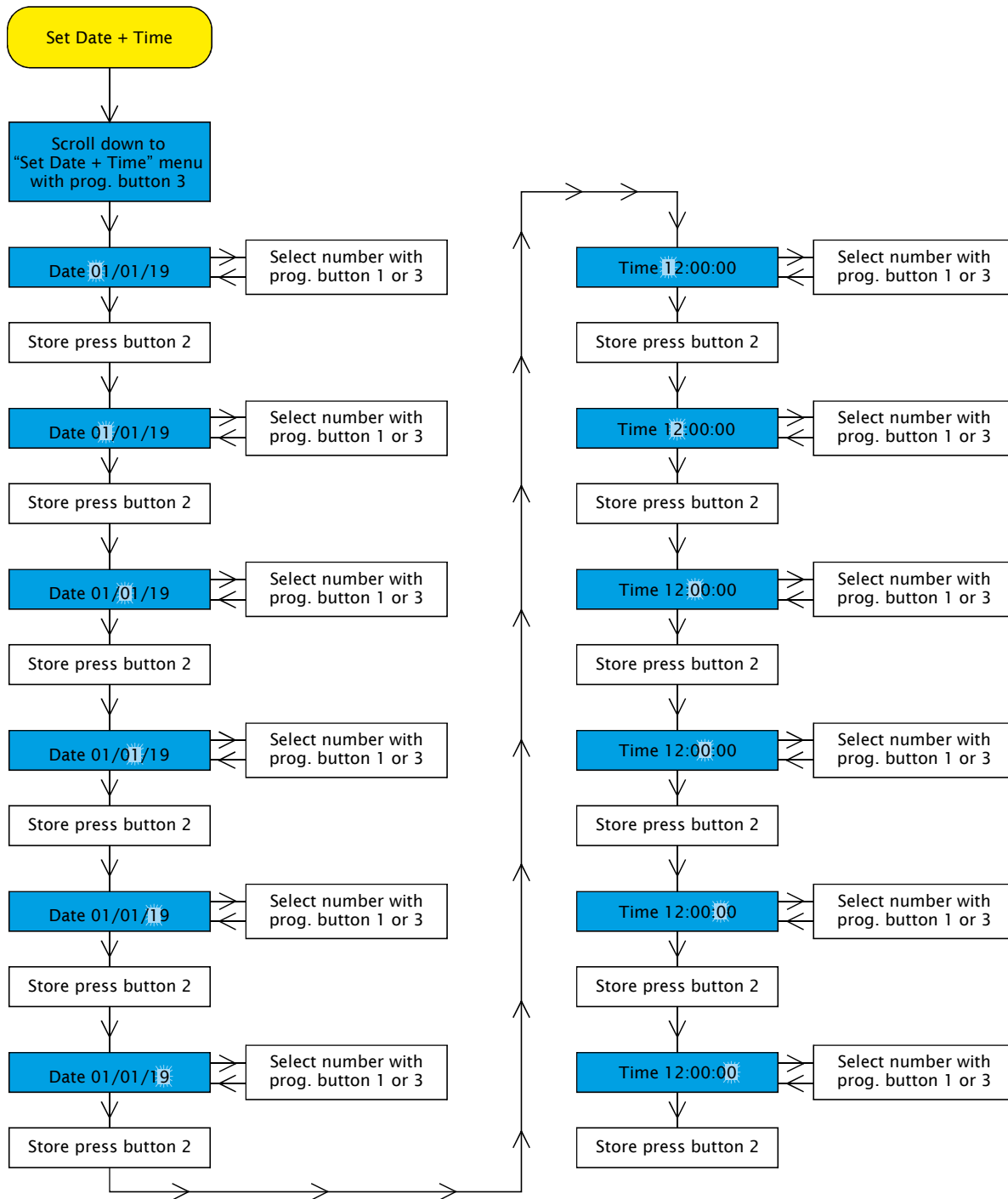
P1000 Alarm Operation Flowchart



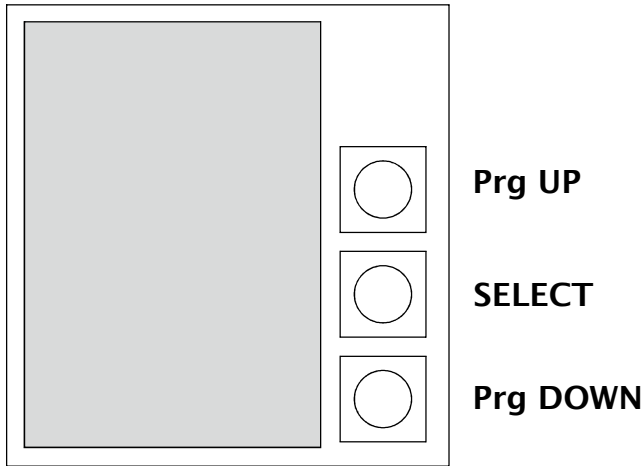
P1 000 OSE Operation Flowchart



P1 000 Realtime Clock Setting Routine



Basic Programming of P1000 - Menu Setting



Engineer Mode *Refer to advanced programming*

Delay Alarm *To delay the close action upon receipt of an alarm signal on Alarm 1 only.
Range 0-30 Minutes*

Press the middle button to enter menu
Select the Up or Down buttons to the desired time
Press the middle button to store

Close Warning *To enable a split drop first set the close warning time. This is the time from
the open position to the desired "show" position. Stage 1
Range 0-10 Minutes*

Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store

Close Wait *To set the time to remain in the "show" position. Stage 2 - Timed or Smoke
Curtain
Range 0-30 Minutes or Smoke Curtain (Indefinite hold unit second alarm
activated)*

Timed - Time set is the time the curtain remains in stage 2 position
Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store

Smoke Curtain - Curtain remains in stage 2 position indefinitely or until Alarm 2
is triggered
Press the middle button to enter menu
Press the Up or Down button until Smoke Curtain is highlighted
Press the middle button to store

Basic Programming of P1000 - Menu Setting

Sec. Alarm

***P1000 has a secondary alarm input for local alarm activation. For further details refer to alarm operation flowchart.
Options Enabled or Disabled***

Press the middle button to enter menu
Press the Up or Down buttons to select either "Enabled" or "Disabled"
Press the middle button to store

E. Retract Op.

***To set the way that the emergency retract operates upon alarm closure. For further details refer to alarm operation flowchart.
Options - Repeat Alarm, Timed or Push to Operate***

Press the middle button to enter menu
Press the Up or Down buttons to select either "Repeat Alarm", "Timed" or "Push To Operate"

E. Retract Time

Press the middle button to store

***To set the time that the curtain retracts for when the emergency retract operation is set to "Timed"
Range 0 - 2 Minutes***

E. Retract Hold

Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store

***To set the time that the curtain waits before closing after "E. Retract Time" has expired
Range 0 - 2 Minutes***

Operation

Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store

***To set the operation of the curtain from the key switch inputs
Options - Latched or Push to Run***

Press the middle button to enter menu
Press the Up or Down buttons to select "Latched" or "Push To Run"
Press the middle button to store

Mains Monitor

***The set time before the curtain closes automatically after a mains failure has been detected
Range 0 - 3 Hours (0 hours = disabled)***

Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store

Mains Switch

***The Mains Switch if enabled will turn the system into sleep mode if the Mains Monitor has closed the curtain. To wake up the system requires a double operation on one of its inputs.
Options: Enabled or Disabled***

Press the middle button to enter menu
Press the Up or Down buttons to select either "Enabled" or "Disabled"
Press the middle button to store

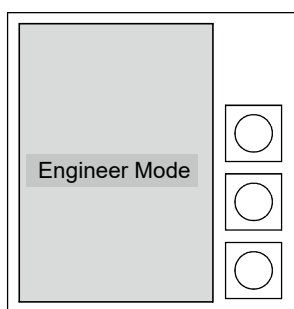
Basic Programming of P1000 - Menu Setting

- Auto Reset** *To automatically reset the system after an alarm signal has cleared. For operation refer to alarm operation flowchart*
Options: Enabled or Disabled
- Press the middle button to enter menu
Press the Up or Down buttons to select either "Enabled" or "Disabled"
Press the middle button to store
- Obstruct. Warn** *To determine what happens when the OSE photo beam is broken (after the time set in Obs. Warn has elapsed) For operation refer to OSE operation flowchart*
Options: "Disabled", "Sounder Only" or "Prevent Close" (Prevent close will stop curtain closing via key switch immediately upon detection with sounder after OBS.Warn time elapsed - Prevent Close does not apply to alarm)
- Press the middle button to enter menu
Press the Up or Down buttons to select either "Disabled", "Sounder Only" or "Prevent Close"
Press the middle button to store
- Obs. Warn Time** *To set the length of time the OSE beam has to be broken before the panel reacts. For operation refer to OSE operation flowchart.*
Range: 0 - 30 Minutes
- Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store
- Serial Number** *Not used*
- S/W Version** *To read the software version programmed*
- Press the middle button
The Serial number is displayed
Press the middle button to leave menu
- Set Date + Time** *To set the real time clock. For further details refer to Realtime Clock Setting Flowchart*
- Press the middle button to enter menu
The first digit of the date will flash
Press the Up or Down buttons to set the desired number
Press the middle button to store and move to the next digit
repeat process until the date is set.
- Press the middle button and the first digit of the time will flash
Press the Up or Down buttons to set the desired number
Press the middle button to store and move to the next digit
repeat process until the time is set
- The last press of the middle button will close the menu

Advanced Programming of P1000 - Menu Setting

Engineer Mode

Engineer mode is protected by a pass code.

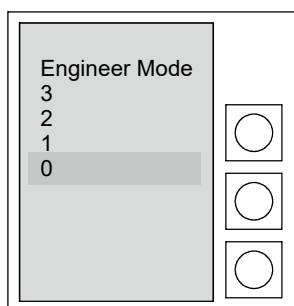


Prg UP

SELECT

Prg DOWN

To enter Engineer Mode
Whilst the Engineer Mode is highlighted
Press the middle SELECT button to enter menu.
A column of numbers will appear



Prg UP

SELECT

Prg DOWN

Press the following sequence of buttons
Prg UP (1 will be highlighted)
Prg UP (2 will be highlighted)
Prg DOWN (3 will be highlighted)
Prg UP (4 will be highlighted)
SELECT (display will return to Engineer Mode)

Once the display returns to Engineer Mode, there will be additional menus available to scroll through and amend.

If the pass code is entered incorrectly the menus will be locked for 2 minutes

Operation Mode

To select whether the system is an individual curtain or a networked system
Options - Single Curtain, Master 1-5 Slaves, Slave 1-5, CJ Master 1-5 Slaves, CJ Slave 1-5. (CJ = conjoined)

Press the middle button to enter menu
Press the Up or Down buttons until the desired type is highlighted
Press the middle button to store

Motor Speed %

To adjust the motor speed in the open and close direction
Range - 100% - 10%

Press the middle button to enter menu
Press the Up or Down buttons until the desired % is highlighted
Press the middle button to store

Close Action

To set how the curtain closes under keyswitch or alarm
Options - Driven or Gravity

Press the middle button to enter menu
Press the Up or Down button and select either "Driven" or "Gravity"
Press the middle button to store

If Gravity is selected a further menu option becomes available and must be set - Gravity Timeout

Advanced Programming of P1000 - Menu Setting

- Gravity Timeout** *This time needs to be in excess of the time taken for the curtain to fully close from the open position. Once the time has elapsed the brake is automatically applied*
- Press the middle button to enter menu
Press the Up or Down button to the desired time
Press the middle button to store
- Expert Mode** **FOR ACTIVATION BY QUALIFIED ENGINEERS ONLY**
Options - Enabled or Disabled
- Press the middle button to enter menu
Press the Up or Down button and select either “Enabled” or “Disabled”
Press the middle button to store
- If Expert Mode is Enabled refer to section on Expert Programming*
- Orientation** *Used to set the correct running direction of the control panel by changing the orientation of the motor*
Options - Left or Right
- If the running direction does not match the direction shown on the display*
- Press the middle button to enter menu
Press the Up or Down buttons to select either “Left” or “Right”
Press the middle button to store
- Brake On & Off** *The Brake On and Brake Off settings are used to control the descent speed of the curtain when set to **Gravity Close***
When the voltage rises to the voltage set in Brake On the load dumped into the brake resistor which slows the curtain.
As the curtain slows the voltage decreases towards the Brake Off voltage. When this is reached the brake resistor is turned off and the cycle repeats
- If the unit is set to **Driven**, Brake Off is automatically set to 24V if running from the Power Supply or 29.5V if running from the battery. The Brake Off voltage is set at 0.5V more than the Brake On voltage (Brake Off = Brake On voltage + 0.5V)*
- Brake On** **Range - 0 to 27V in 0.1V increments**
- Press the middle button to enter the menu
Press the Up or Down button to the desired voltage
Press the middle button to store
- Brake Off** **Range - 0 to 27V in 0.1V increments**
- Press the middle button to enter the menu
Press the Up or Down button to the desired voltage
Press the middle button to store

Advanced Programming of P1000 - Menu Setting

- Battery Test** *Battery test menu that if enabled tests the battery at 110% Full Load Current hourly. A failed test can be used to trigger a relay output and visual indication. Selecting "Test" from the menu will do an instantaneous battery test. This should be followed by selecting either Enabled or Disabled.*
Options - Test / Enabled / Disabled
- Press the middle button to enter menu
Press the Up or Down buttons to select either "Test", "Enabled" or "Disabled"
Press the middle button to store
- Low Batt Volts** *This is the critical voltage at which the panel closes the curtain as a failsafe due to depleted batteries*
- Batt Volt Drop** *This is the voltage drop permissible during the automatic battery test. If the voltage is exceeded the curtain will fail the battery test (if enabled) and will close after the time set in Low Bat Close menu*
- Low Batt Close** *This menu sets how the curtain reacts if the control panel fails a battery test. A failure of the battery test will still show as a fault.*
Options - No Action or Range 10 to 60 minutes in 10 min increments
- Press the middle button to enter menu
Press the Up or Down buttons to select either "No Action" or the desired time
Press the middle button to store
- Power Save** *In order to save power this menu automatically turns off the brake once the curtain is in a fully closed position.*
Options - Enabled or Disabled
- Press the middle button to enter the menu
Press the Up or Down button to select either "Enabled" or "Disabled"
Press the middle button to store
- Auto Test** *This menu sets the Auto Test function of the curtain in line with the British Standard for use in residential properties. If set the curtain will split drop then close fully before remaining closed for the time set in menu Auto Test Wait. Selecting "Test" will do an immediate Auto Test.*
Failure of an Auto test will be displayed and can be indicated with a status relay.
Options - "Disabled", "Daily", "Weekly", "Fortnightly", "Monthly" and "Test"
Press the middle button to enter the menu
Press the Up or Down button to select either "Disabled", "Daily", "Weekly", "Fortnightly", "Monthly" or "Test"
Press the middle button to store
- Auto Test Wait** *This menu sets the time that the curtain remains in the deployed position on a Auto Test*
Range 0-10mins
- Press the middle button to enter menu
Press the Up or Down buttons until the desired time is highlighted
Press the middle button to store

Advanced Programming of P1000 - Menu Setting

- Next Auto Test** *This menu displays the date and time of the next Auto Test*
- Last Auto Test** *This menu displays the date and time of the last Auto Test and whether it Failed or Passed*
- Relay 1 Func** *This menu sets how Relay 1 is configured. The relay contacts are volt free c/o and can be used to signal obstruction, alarm activation, curtain status or fault conditions.*
Options - "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
- Press the middle button to enter the menu
Press the Up or Down button to select either "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
Press the middle button to store
- Relay 2 Func** *This menu sets how Relay 2 is configured. The relay contacts are volt free c/o and can be used to signal obstruction, alarm activation, curtain status or fault conditions.*
Options - "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
- Press the middle button to enter the menu
Press the Up or Down button to select either "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
Press the middle button to store
- Relay 3 Func** *This menu sets how Relay 3 is configured. The relay contacts are volt free c/o and can be used to signal obstruction, alarm activation, curtain status or fault conditions.*
Options - "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
- Press the middle button to enter the menu
Press the Up or Down button to select either "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
Press the middle button to store
- Relay 4 Func** *This menu sets how Relay 4 is configured. The relay contacts provide 24V DC when activated and can be used to signal obstruction, alarm activation, curtain status or fault conditions.*
Options - "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
- Press the middle button to enter the menu
Press the Up or Down button to select either "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
Press the middle button to store
- Relay 5 Func** *This menu sets how Relay 5 is configured. The relay contacts provide 24V DC when activated and can be used to signal obstruction, alarm activation, curtain status or fault conditions.*
Options - "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
- Press the middle button to enter the menu
Press the Up or Down button to select either "Disabled", "Alarm 1", "Alarm 2", "Open", "Closed", "Mains Fail", "Fault", "Obstruction" or "Battery Fail"
Press the middle button to store

Advanced Programming of P1000 - Menu Setting

Local Net Baud	<i>This menu is used for network communication</i>
Remote Net ID	<i>Identification number of board This menu is used for network communication</i>
Remote Net Baud	<i>This menu is used for network communication</i>
Next Service	<i>This menu sets the next service date. The display indicates when the service becomes due and the sounder (if fitted) is activated</i>

Press the middle button to enter menu
The first digit of the date will flash
Press the Up or Down buttons to set the desired number
Press the middle button to store and move to the next digit
repeat process until the date is set.

Advanced Programming of P1000 - Expert Mode - Menu Setting

Advanced programming should only be undertaken by engineers with the required training

Caution - Damage to the curtain / equipment may occur if these settings are incorrect

Motor Type

This menu selects the motor type being used.

Options - Stall Open or Gravity F/Safe

Gravity F/Safe (Gravity Failsafe) is the ASB motor and uses the upper limit on the motor to stop the curtain

Stall Open requires a physical stop in the upper position to stall the curtain. The current limit must be set in the current limit menu to ensure the curtain is not damaged during stalling.

Press the middle button to enter menu

Press the Up or Down button to select "Stall Open" or "Gravity F/Safe"

Press the middle button to store

Current Limit

This menu is used to set the stall current of the motor. If the Motor Type is set to "Gravity F /Safe" a stall will result in a "Current Limit" error being displayed.

Range - 1.0A - 7.0A

Press the middle button to enter menu

Press the Up or Down button to select the desired current

Press the middle button to store

Maintaining the system: what is involved?

No matter how technologically advanced a fire protection system might be with state-of-the-art self-monitoring and automatic fault detection features, there will always be the need for human observation and intervention to ensure its continuous smooth running and optimum performance.

There are three main reasons for routine maintenance and testing:

- To identify any faults signalled and take the appropriate action to rectify them;
- To ensure there have been no major failures of the system, either as a whole or in part;
- To familiarise occupants of the building with the operation

As such, it is important for the premises management to institute a schedule of system testing, which may be sub-divided into weekly and monthly routines. Details of all tests should be recorded in the system logbook.

Testing Routine

The testing regime should be determined by the customer / fire officer but examples may include:

Simulation of fire alarm condition to close the curtain during normal working hours;

Checking the integrity of the curtain fabric especially for splitting;

In systems with multiple self contained detectors, testing a different detector on each test, so that all are eventually included in the schedule of testing over a period of time;

Emergency Access & Retract (if fitted) test whilst in alarm state;

Testing of voice alarm systems (if fitted).

Inspection and Servicing

Over and above the above testing regime, it is important for regular inspection and servicing of the system to be carried out, in order to identify and rectify any faults.

Functions included in the periodic inspection and testing of the system include, inter alia, replacement of the standby batteries, an examination of the logbook, to include follow-up action on any faults recorded, and a visual inspection of all the retract switches, automatic fire detectors and AV devices.

The recommended period between successive inspection and servicing visits should not exceed twelve months and should be completed by a competent trained engineer.

In respect of non-routine attention to the system, there are several scenarios that can arise and to which there applies detailed recommendations. These range, inter alia, from transfer of building / equipment to a new owner, system modifications to inspection and test of the system following any fire.