

## Introduction

The Remote Status Unit (RSU) connects to the **GasRelease** panel and provides remote system status indication, an LCD status display unit, manual release of gas, a manual and automatic mode keyswitch and three monitored inputs. RSUs can be either flush-mounted or surface-mounted.

## Installation

### Location and Fixing

The RSU must be mounted indoors on a dry, flat surface in an area that is well ventilated. Ideally the LED indicators and LCD should be at eye level and the ambient light level should allow the status of indicators to be clearly seen.

Take the RSU out of its packing box. Using the Allen key (supplied in the accessory pack) remove the RSU's front lid by undoing the four lid screws.

**Note:** If required, to protect the electronics from damage, the Connector PCB (mounted in the RSU base) can be removed prior to first fix installation. Simply unscrew its one retaining screw and slide the PCB off its four mounting pillars.

Disconnect the telecoms-style connecting cable from PL1 on the PCB. Fix the RSU's base securely onto a wall using the four mounting holes provided. Assess the condition and construction of the wall and use suitable screw fixings. Any dust or swarf created during the fixing process must be kept out of the RSU and care must be taken not to damage any wiring or components.

### Wiring

All wiring should be installed in accordance with the current edition of the IEE Wiring Regs (BS7671), or the relevant national standards. Cables should be fed into the RSU via the knockouts provided on the top of the base unit. Knockouts should be removed with a sharp, light tap using a flat 6mm broadsided screwdriver as shown in diagram (see right). Always ensure that if a knockout is removed, the hole is filled with a good quality 20mm cable gland. Any unused knockouts must be securely blanked off.

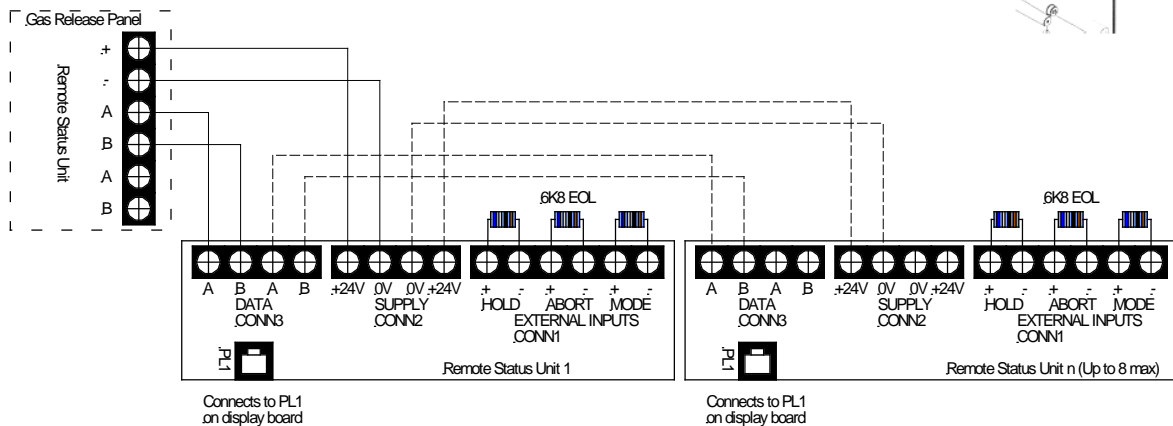
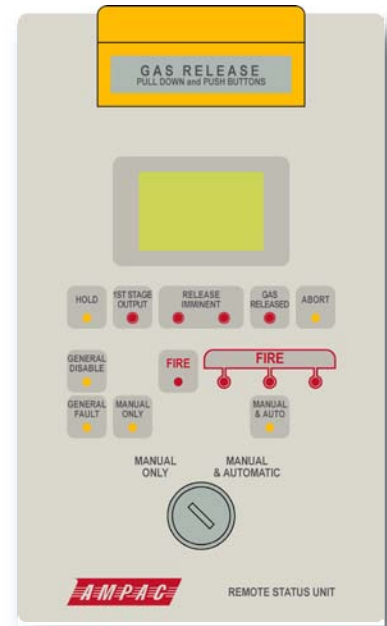
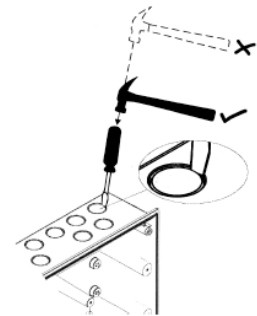


Figure 1 – Typical RSU Circuit Wiring

The first RSU connects to the Remote Status Unit connector terminals on the Main Control PCB (mounted inside the Gas Release panel) via a 4-wire connection (2-wire power, 2-wire RS485). The wiring is then daisy-chained onto the remaining RSUs (see Fig.1). A maximum of eight RSUs can be connected to the Gas Release panel. Three monitored input connections are available at the RSU: Hold, Abort, and Mode. A 6k8 EOL resistor (supplied in the accessory pack) must be connected across the terminals of the last device on

each monitored circuit to allow the wiring to be line monitored for open and short circuit faults (see Fig.2). Unused circuits must have a 6k8 resistor fitted at CONN1 on the Connector PCB. The RSU also has a Display Board which has a pcb-mounted LCD status display unit, DIL switch and Display Contrast (VR1). Adjust (VR1) to suit the contrast of the unit's LCD display. Each RSU must be allocated a unique address between 1 and 8 by setting the DIL switch. See right for DIL switch settings (• = DIL switch ON/DOWN).

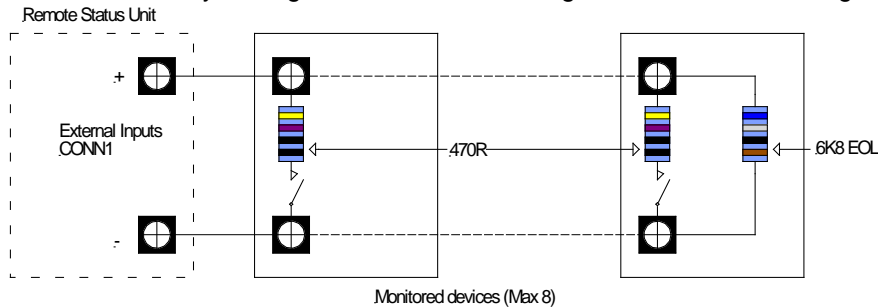


Figure 2 – Typical Monitored Input Wiring

RSU Address	DIL Switch Settings			
	8	4	2	1
1	0	0	0	•
2	0	0	•	0
3	0	0	•	•
4	0	•	0	0
5	0	•	0	•
6	0	•	•	0
7	0	•	•	•
8	•	0	0	0

## Controls & Indicators

The front of the RSU has various LED indicators, keyswitch/pushbutton controls and an LCD status display unit, as detailed below:

### LED Indicators

(General Fire); Fire Zones (x3); General Disablement; Hold; First Stage Output; Release Imminent (x2); Extinguishant Released; Abort; General Fault; Manual Only; Manual & Automatic.

### LCD Status Display Unit

Provides system status information and displays the countdown time before extinguishant is released.

### Pushbutton Controls

Extinguisher Release (housed in yellow plastic casing).

**CAUTION: THESE PUSHBUTTONS MANUALLY RELEASE THE EXTINGUISHANT.**

Pull down the plastic flap and press both red buttons simultaneously to release the extinguishant.



### Keyswitch Controls



Insert the key and turn the keyswitch to toggle the mode of the extinguishant system between "Manual Only" and "Manual & Automatic".

**NOTE: WHEN THE RSU IS IN "MANUAL ONLY" MODE, THE MAIN EP203 PANEL ALSO REVERTS TO MANUAL MODE AND EXTINGUISHANT CANNOT BE RELEASED BY AUTOMATIC FIRE DETECTION.**

## Technical Specification

Remote Status Unit (RSU)	Figure 1 – Typical Wiring
Power:	21-28Vdc, 200mA electronic fuse
Max number of RSU's:	8
Number of monitored inputs:	3 (Hold, Abort, Mode)
2980-0001 Flush mount Dimensions	175mm(w) x 250mm(h) x 53mm(d) approx. (metal)
2980-0002 Surface mount Dimensions	160mm(w) x 240mm(h) x 51mm(d) approx. (metal)
Accessory Pack	
1 x Installation Instructions; 2 x keys; 1 x Allen Key; 3 x 6K8 0.25W EOL resistors.	