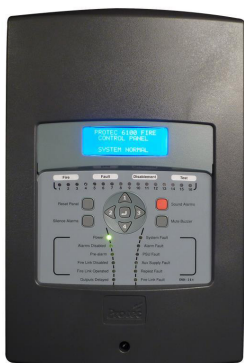




Quick Start Guide

6100 Fire Detection Alarm - Primary Kit



Thank you for purchasing the 6100 Fire Detection Alarm - Primary Kit. You will find all the information you need in preparing to install the system in this Quick Start Guide.



This Quick Start Guide contains only the basic information for unpacking and preparing to install the 6100 Fire Detection Alarm - Primary Kit. For all the relevant documentation essential for installation and commissioning a 6100 system, refer to the full manuals by following the link in this QR code.

Kit Contents

Protec 6100 Fire Detection Alarm - Primary Kit

1 x 6100 Control Panel
1 x 6000PLUS/OPHT
5 x 6000PLUS/OPHT/S
1 x 6000PLUS/HT
1 x 6000PLUS/HT/S/VAD
10 x 6000PLUS/BASE
3 x 6000/MCP
3 x 6000/BACK BOX
3 x MCP HINGED COVER
2 x 6000/MICCO
2 x MICCO Back box
2 x 6000PLUS/S/VAD
1 x 6000/C/VAD/RED
1 x LOG BOOK
1 x Loop Commissioning Manual

Also available:

Protec 6100 Fire Detection Alarm – Extension Kit 1
Protec 6100 Fire Detection Alarm – Extension Kit 2



Carefully take the 6100 Control Panel out from its packaging. Ensure that the waste packaging is properly recycled once the panel has been installed.

Mounting Requirements

For full details of the mounting requirements, please see the 6100 installation manual.

PC Requirements

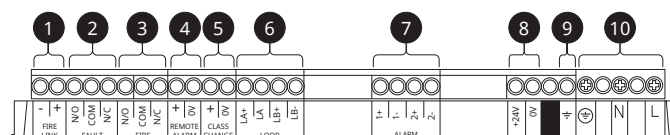
The PC used to connect to the 6100 must conform to the following minimum specification.

- 1 GHz processor.
- 1 GB RAM.
- 1 GB available hard disk space.
- One free USB 2.0 communications port (for connection to the 6100).
- Windows® Operating System Windows® 7 (32 bit or 64 bit) or later.
- Connection to the internet (if online software updates are required).
- Go to <https://www.protec.co.uk/welcome-to-your-6100> to download the latest 6100 software.

User Codes

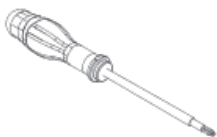
User Code	134422
Engineer Code	314431
Advanced Code	143342

Terminal Wiring

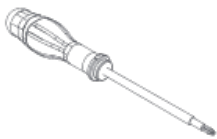


ID	Description
1	Monitored Fire Link output
2	Global fault contacts
3	Global fire contacts
4	Remote Alarm input
5	Class Change input
6	Addressable loop connections
7	Monitored conventional alarm outputs
8	Monitored Auxiliary 24 V output
9	Earth connection
10	ac mains input supply

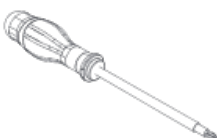
Tools and Materials



PZ1 Pozidriv® Screwdriver



T15 Torx® Screwdriver



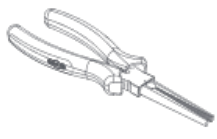
PZ2 Pozidriv® Screwdriver



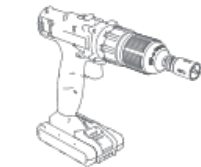
Terminal Screwdriver
(2.5 mm Wide Tip)



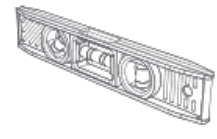
Large Slotted Screwdriver
(5 mm Wide Tip)



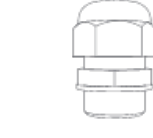
Long Needle Nose Pliers



Power Drill with Hole Saw



Spirit Level



Suitable Cable Glands



Mounting Hardware

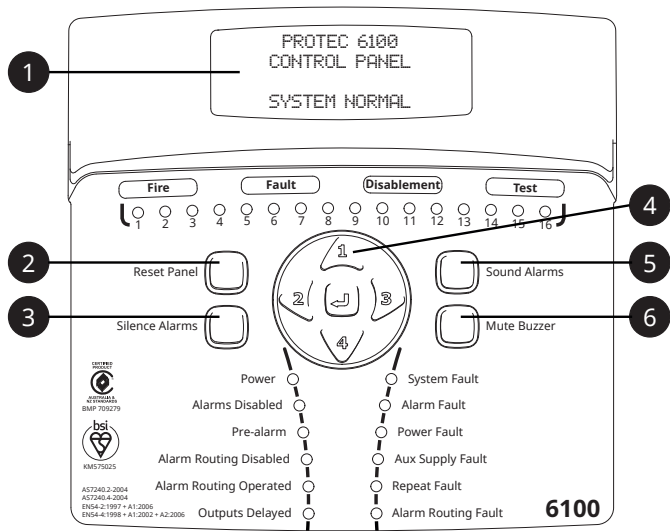


The use of torque limiting screwdrivers is preferred to prevent the over-tightening of internal fasteners and terminal blocks.



Unless otherwise specified, tighten all internal fasteners to 0.6 - 0.8 N·m and terminal blocks to 0.4 N·m.

Basic Controls



ID	Description
1	Multifunction Display
2	Reset Panel
3	Silence Alarms
4	Code Entry and Menu Navigation Keys
5	Sound Alarms
6	Mute Buzzer

Product Safety Notices



Warning! Ensure that the mains supply cabling is adequately rated for this product's operating current and temperature, and is protected against short-circuit by a correctly rated fuse or circuit breaker.



Caution! The device may only be operated by trained personnel.



Notice! There are no user serviceable parts inside the panel. A competent person trained to undertake such work **must** carry out any internal maintenance work. Separate installation and commissioning manuals are available.



Notice! This equipment is not guaranteed unless installed and commissioned in accordance with current national standards.



Notice! Clean the screen and surfaces with a slightly damp soft cloth only. Do not use any cleaning agents and make sure that no liquid enters the inside of the device.



Notice! Take care using any pointed or sharp objects (e.g. screw drivers, pens, etc.) when working near the display.

Standards Compliance

 2797	 0086
12	21
Protec Fire Detection PLC, Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT, United Kingdom	
PFD-CPR-0055	PFD-UKCA-0055
BS EN 54-2:1997 + A1:2006	
BS EN 54-4:1997 + A1 + A2:2006	
Control/Indicating and Power Supply equipment for fire detection and fire alarm systems for buildings	
6100 Fire Alarm Control Panel	
Options with requirements:	
7.8 Output to fire alarm devices	
7.9.1 Output to fire alarm routing equipment	
7.11 Delays to outputs	
7.12.3 Dependencies on more than one alarm signal (Type C)	
7.13 Alarm counter	
8.3 Fault signals from points	
10 Test condition	
Control & Indicating:	
Performance under fire conditions: Pass	
Response delay (response time to fire): Pass	
Operational reliability: Pass	
Durability of operational reliability, Temperature resistance: Pass	
Durability of operational reliability, Vibration resistance: Pass	
Durability of operational reliability, Electrical stability: Pass	
Durability of operational reliability, Humidity resistance: Pass	
Power supply:	
Performance of power supply: Pass	
Operational reliability: Pass	
Durability of operational reliability, Temperature resistance: Pass	
Durability of operational reliability, Vibration resistance: Pass	
Durability of operational reliability, Electrical stability: Pass	
Durability of operational reliability, Humidity resistance: Pass	

Installation Checklist

The panel is level and securely fixed to the mounting surface.	☐
The panel is in a location with no exposure to direct sunlight, moisture, or vibration.	☐
The panel is positioned in an accessible location, at an accessible height, complying with local regulations.	☐
Sufficient space has been left around the installation for maintenance.	☐
Any stickers or notices must be located outside of the light grey overlay.	☐
The load rating of the chassis and load rating of the fixing method have been respected.	☐
The inside of the enclosure is free from any debris, swarf, dust, tools or building materials.	☐
All protective covers or shrouds have been refitted.	☐
All safety earth connections are sufficiently tightened.	☐
All earth and screen wires are of sufficient length and have adequate room for expansion.	☐
All ELV (eg. 230 V Mains) cables are suitably restrained.	☐
The product's stated Ingress Protection (IP) rating has been maintained.	☐
No wires are trapped beneath the batteries.	☐
Sufficient cable tails have been left to accommodate any future requirements or amendments.	☐
The waste packaging has been properly recycled.	☐
Ensure the Torx® locking screw is tightened sufficiently.	☐

Response to Alarm

Automatic Detection

If a detector (smoke, heat etc.) activates on a zone of the 6100 this is known as an automatic operation. The 6100 responds by:

- Illuminating the 'General Fire' indicator.
- Flashing the relevant red zone fire indicator and displaying on the display.
- Fast pulsing of the internal buzzer.
- Activating alarm outputs as programmed, after any delays have expired.
- Activating the Fire Link output after any programmed delays have expired.
- Activating the Global Fire contacts.

Manual Detection

If a Manual Call Point is operated on the zone of a 6100 this is known as manual operation. The 6100 responds by:

- Illuminating the 'General Fire' indicator.
- Flashing the relevant zone fire indicator and shown on the display.
- Fast pulsing of the internal buzzer.
- Immediately activating alarm outputs as programmed.
- Immediately activating the Fire Link output.
- Activating the Global Fire contacts.



Silence Alarms

Silencing the Alarms

Pressing Silence Alarms when in access level 2 will silence alarm outputs. A further activation will re-sound the alarms.

New Zone in Alarm

If a new zone or a previously silenced zone goes into alarm, the 6100 will re-activate the alarms and re-sound the internal buzzer.



Reset Panel

Resetting the 6100 after an Alarm

After the cause of the alarm has been determined (and entered in the log by the authorised user) the 6100 can be reset if required. Manual Call Points, if triggered, must first be reset locally. In access level 2 press Silence Alarms then press Reset Panel. The 6100 will reset any latched devices on its loop. This process takes about 20 seconds during which time **the 6100 will not detect new fires.**



Sound Alarms

Activating the Alarms Manually

Press Sound Alarms when in access level 2 to evacuate the building. Alarm outputs will be activated as programmed but the Global Fire Contacts and the Fire Link Interface will not be activated.



Mute Buzzer

Mute Buzzer

Press Mute Buzzer when in access level 2 to mute the fault or fire buzzer tone.

Refer to DEL2190 Safety and Regulatory Information (Panels) 

Protec Fire Detection PLC
Protec House, Churchill Way
Nelson, Lancashire
BB9 6RT, United Kingdom

This document must be read in accordance with the Product Documentation Disclaimer available at protec.co.uk/terms.

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