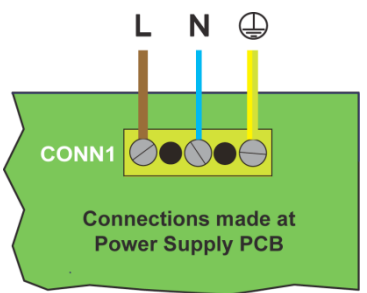
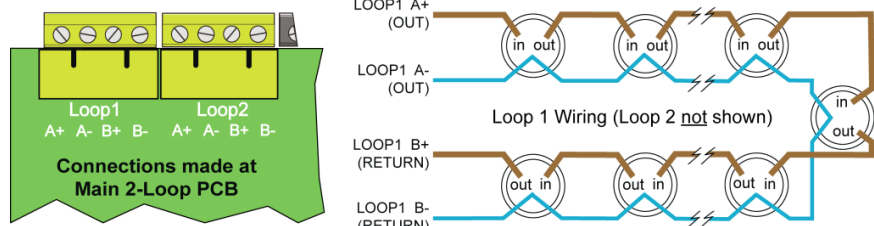
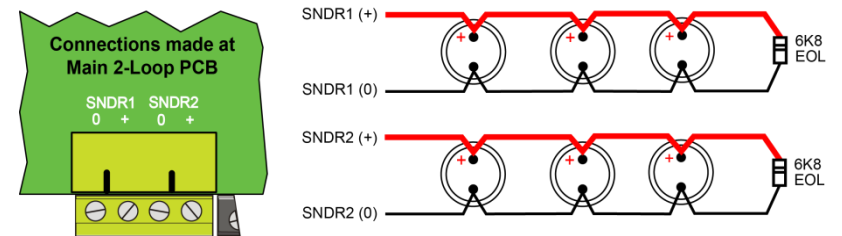




WARNING! DO NOT connect or disconnect the panel's internal wiring/looms, or terminate field wiring at the PCBs, with the panel's power applied (either Mains or battery).
Failure to observe this will destroy the panel's electronic components and the warranty will be void.
ENSURE YOU HAVE ATTENDED C-TEC'S AUTHORISED TRAINING COURSE BEFORE ATTEMPTING TO INSTALL AND PROGRAM THE PANEL.

<p>CABLES</p>	<p>RECOMMENDED CABLE TYPES 4</p> <p>All cables must be installed in accordance with the relevant national, regional or local regulations.</p> <p>Mains wiring is fixed wiring, using fire resistant, 3-core cable (no less than 1mm² and no more than 2.5mm²), or a suitable three conductor system fed from an isolating switched fused spur, fused at 3A or a 6A Type B circuit breaker to IEC/EN 60898-1. Mains wiring should be segregated from extra low voltage field wiring.</p> <p>Extra low voltage field wiring includes loop circuits, conventional sounder circuits and auxiliary inputs/outputs. Fire resistant, screened cable may be used such as FP 200™, Firetuff™, Firecel™ and MICC. All screens must be terminated to the earth bar provided in the panel's back box.</p>	<p>DETAIL 1</p>	<p>EXTERNAL MAINS CONNECTION 5.18</p> <p>Isolate mains power to the panel until it is ready to be tested (one method is to open and lock off the main circuit breaker to the panel).</p> <p>The panel is supplied with 230V, 50Hz mains.</p> <p>Terminate incoming mains to L (Live), N (Neutral) and ⊕ (Earth) terminals at CONN1 on the Power Supply PCB, shown right.</p> 
	<p>INSTALLATION PROCEDURE</p>		<p>RECOMMENDED SHORTFORM INSTALLATION & COMMISSIONING PROCEDURE 9.1</p> <p>Note: DO NOT connect mains or battery power to the panel until the installation is complete, i.e. panel PCBs are fitted and field wiring has been tested and connected to the panel.</p> <ul style="list-style-type: none"> Remove the panel's lid and chassis. Fit the panel's back box to a wall. Connect field cables to the panel via glands and terminate all screens to the earth bar in the back box. Test field cables and ensure they are fault-free, i.e. check continuity of cable runs (including screens). Check the continuity on the negative (-ve) line of the device loop to ensure it is fault free. Connect external mains cable to the panel (with mains isolated) – SEE DETAIL 1, opposite. Connect the panel's internal batteries (with battery supply isolated) – SEE DETAIL 2, opposite. Refit the panel's chassis and lid. Connect analogue loop(s) wiring to the panel – SEE DETAIL 3, opposite. Connect conventional sounder circuit(s) to the panel – SEE DETAIL 4, opposite. Connect additional field wiring to the panel – SEE DETAIL 5, opposite. Apply mains and battery supply to power up the panel. Commission the panel by entering AL3 and performing an auto address or loop learn (see overleaf). Program the panel using the CAST ZFP Programming Tools (Part No. ZTOOLS).
<p>DETAIL 3</p>		<p>TYPICAL ANALOGUE LOOPS CONNECTION 5.11</p> <p><u>Two</u> analogue loop connectors (Loop1 & Loop2) are provided on the Main 2-Loop PCB, shown right.</p> <p>N.B. Some protocols and systems have different methods of loop isolation. The example shown right has loop isolators in every +ve leg of each device. See full manual for details.</p>  <p>Terminate all screens to the earth bar in the panel's back box.</p>	
		<p>DETAIL 4</p>	<p>CONVENTIONAL SOUNDER CIRCUITS CONNECTION 5.12</p> <p><u>Two</u> conventional sounder circuit connectors (SNDR1 & SNDR2) are provided on the Main 2-Loop PCB, shown right.</p> <p>Terminate all screens to the earth bar in the panel's back box.</p> <p>ALWAYS make sure the two 6k8 EOL resistors (supplied) are fitted at the last sounder on each circuit. If a sounder circuit is unused, you must still connect the resistor at the panel terminals.</p> 
<p>DETAIL 5</p>	<p>ADDITIONAL FIELD WIRING</p> <p>Auxiliary inputs 5.13 AUX 24V output 5.14 Relay outputs 5.15 Networking 6 A-Bus (RS485) 7</p>		

Disclaimer: Errors and omissions excepted. No responsibility can be accepted by the manufacturer or distributors of this range of fire panels for any misinterpretation of an instruction or guidance note or for the compliance of the system as a whole. The manufacturer's policy is one of continuous improvement and we reserve the right to make changes to product specifications at our discretion and without prior notice.



The quick start programming steps detailed below provide a basic configuration of the system when the panel is first powered up. It is assumed that all loops are correctly wired to the panel with no wiring/crossover faults.

Hint: ZFP PC Programming Tools (Part No. ZTOOLS) are available that allow quick and easy input of data, cause and effect programming, naming of devices, zones and groups, etc. Contact your supplier for details.

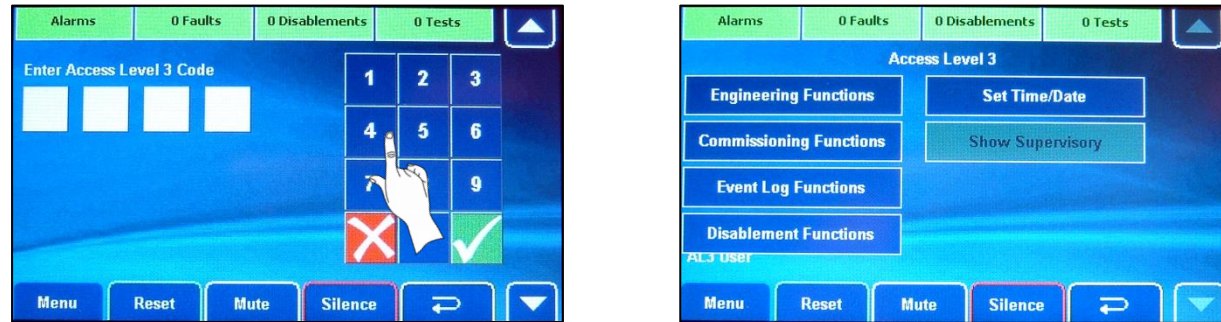
The following touchscreen buttons are available in the steps listed below:

- displays user menus
- returns to previous menu
- scroll up
- scroll down
- confirms changes/settings
- cancels changes/settings

Section numbers, e.g. 9.3, reference sections in the full manual with additional information.

STEP 1 ENTER ACCESS LEVEL 3 (AL3) 9.3

First, press the **Menu** button on the panel's touchscreen to display the access level 1 menu options. Then, press the **Access Level 3** button and the AL3 login window appears (shown below left). Using the touchscreen's numeric keypad, enter the four-digit AL3 code (default code is: 4444). When the code has been entered correctly the AL3 menu options appear (shown below right).



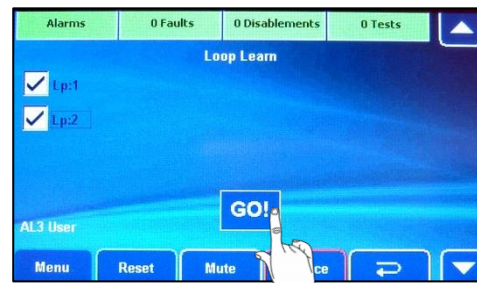
STEP 2 SET PANEL'S TIME AND DATE 9.8

Enter AL3 (4444), press **Set Time/Date** button and a window similar to the one shown right appears. Set the time and date using the touchscreen's numeric keypad and buttons. Also, set/unset the daylight saving time (DST). When correct, press the button to return to the AL3 menus.



STEP 3 LOOP LEARN 9.5.1

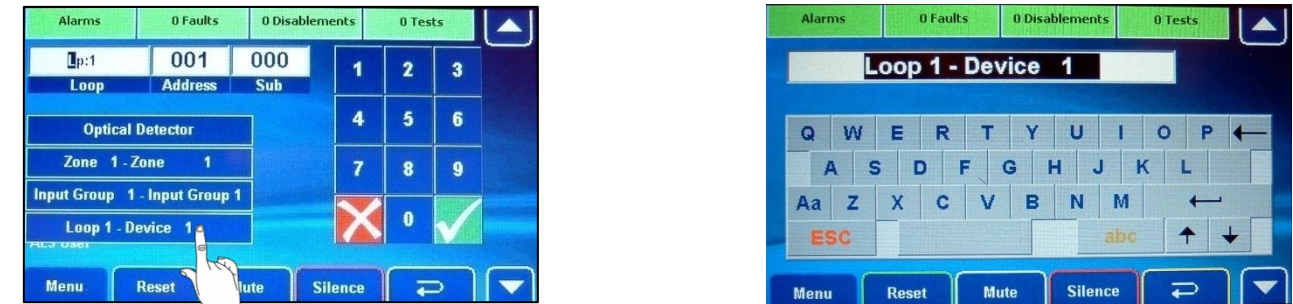
During a loop learn, the panel interrogates every device fitted on a selected loop to identify the type of device and its address. This enables any missing, double-addressed, or wrong devices to be identified. Enter AL3 (4444), press **Commissioning Functions** button to display the Commissioning menu, then press the **Loop Learn** button. The window shown right appears. Select the loop(s) you want the panel to learn (Loop 1 and Loop 2 are shown selected), then press the **GO!** button. Investigate and rectify any messages reported as faults on the touchscreen.



AFTER A SUCCESSFUL LOOP LEARN YOU WILL HAVE A SINGLE ACTIVE ZONE (I.E. ZONE 1) "ONE OUT, ALL OUT" FIRE ALARM SYSTEM!

STEP 4 NAMING LOOP DEVICES (WITHOUT USING PCTOOLS) 9.5.4

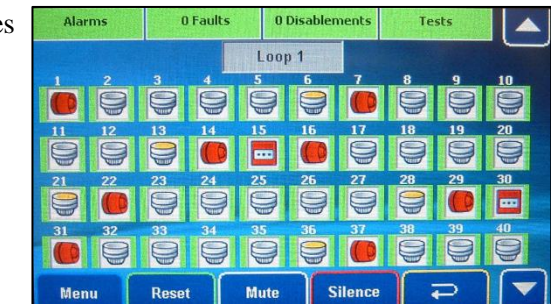
Enter AL3 (4444), press the **Commissioning Functions** button to display the Commissioning menu, then press the **Add/Del/Edit Device** button. A window similar to the one shown below left appears showing the device description for Loop 1, Address 001. Note you can view details for other loops or addresses by pressing the relevant 'Loop' or 'Address' field and using the touchscreen's numeric keypad and buttons. Press the device description button ('Loop 1 - Device 1' shown below) and in the next window amend the text using the touchscreen's Qwerty keyboard (shown below right). Repeat this naming procedure for all loop devices.



STEP 5 ADDITIONAL PROGRAMMING FEATURES

Upon completion of a loop learn, you can view/edit devices, zones and groups from the Commissioning and Engineering menus. Typical programming features include:

- Device Manager** 9.4.1 (shown right)
- Add/Del/Edit Device** 9.5.4
- Edit Zone Name** 9.5.5
- Edit Input Group Name** 9.5.6
- Edit Output Group Name** 9.5.7



ACCESS LEVEL 3 (AL3) MENUS

