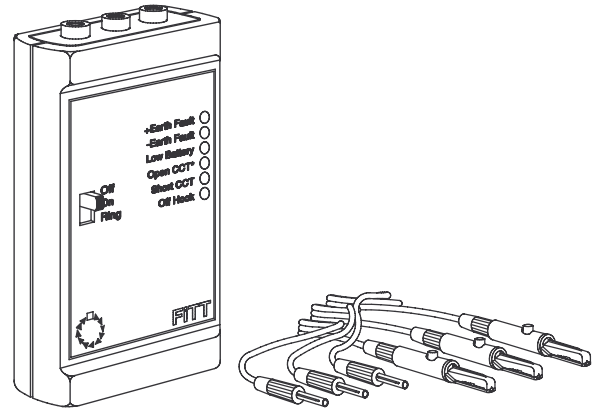


User Instructions

GENERAL

The FiTT line tester is an easy to use test set which allows you to test the wiring for a SigTEL Type A (fire telephone) outstation and/or a SigTEL Type B (disabled refuge) outstation prior to its connection to an appropriate SigTEL exchange unit.

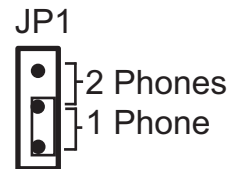
The FiTT is supplied with a non-rechargeable 9 volt (PP3) alkaline battery (allowing approximately 28 hours use) and all the test cables and connectors you need. Always replace the battery with a non-rechargeable 9 volt (PP3) alkaline battery. Do not use a rechargeable battery.



TEST PROCEDURE

Important: To comply with current installation standards, most SigTEL systems will have one outstation connected to each line although some older systems may have two. You will need to ascertain how many outstations are connected to each line before testing commences.

1. Connect the three leads (supplied) to the corresponding coloured terminal (red, green or black) at the top of the FiTT.
2. At the exchange unit, take the first incoming outstation line and connect the RED lead to its +Ve conductor the BLACK lead to its -Ve conductor and the GREEN lead to its protective earth conductor.
3. To test one line with one outstation connected ensure that the internal jumper link (JP1) is fitted to the "1 Phone" position (this is the default position).
To test one line with two outstations connected ensure that the internal jumper link (JP1) is fitted to the "2 Phones" position.



Important: If the FiTT does not have an internal JP1 link arrangement, its default setting will be to test one line with one outstation connected. To test one line with two outstations connected you must first cut the internal 10K resistor located across the FiTT's red and black terminals - note that once cut this process cannot be reversed.

4. Switch on the FiTT - all of its LEDs should be OFF.
5. Switch the FiTT to RING. If there are no faults present, the relevant Outstation(s) will now start to ring.

For a Type A fire telephone outstation:

Pick up the telephone handset and speak into the microphone - a sidetone of your voice should be heard in the earpiece. As the handset is lifted the green "Off Hook" LED on the FiTT will light.

For a Type B disabled refuge outstation:

Press the "push to call or answer" button. The red "Call in Progress" LED on the outstation will light and the green "Off Hook" LED on the FiTT will also light.

If any of the FiTT's fault lights are lit, refer to the list below for their meaning:

+ Earth Fault	Short Circuit between positive and earth conductors
- Earth Fault	Short Circuit between negative and earth conductors
Low battery	The FiTT's battery voltage has dropped below 3 Volts and must be replaced.
Open CCT	Open circuit between positive and negative conductors or reverse polarity on a Type A (fire telephone) outstation. If you suspect a reverse polarity fault, swap the FiTT's RED and BLACK leads, if the LED goes out the Type A outstation is reverse polarity connected.
Short CCT	Short Circuit between positive and negative conductors
Off Hook	Illuminates when a Type A or Type B outstation is active or when there is a reverse polarity fault on a Type B (disabled refuge) outstation. If you suspect a reverse polarity fault, swap the FiTT's RED and BLACK leads, if the "Off Hook" LED goes out the Type B outstation is reverse polarity connected.

7. Correct any wiring faults and re-test for correct operation.
8. Test the remaining lines as described in steps 2 to 7.