

# MICROSOUND SYSTEMS

## IMPTEST 109 IMPEDENCE TESTER MANUAL

To test the impedance of the substation and the twisted pair cable on the SLSI 80 or M20 School Intercom Systems. It is important that all the sub station impedance are correct so that the audio to and from the sub stations is clear, and that when an all call is made the Amp is not overloaded.

The 11 LED's will indicate from a short, the bottom LED on to a open circuit, top LED on.

To test a sub station connect the test cable to the intercom pair and press the Test button.

### **TEST RESULTS:**

Red LED	1	High = Open circuit, check cable pair and sub.
Red LED	2	Impedence too high check cable pair and sub.
Red LED	3	Ok = Sub Station correct on a very long cable run.
Green LED	4	Ok = Sub Station correct on a longer cable run.
Green LED	5	Ok = Sub Station correct on a long cable run.
Green LED	6	OK = Sub Station correct on short cable run. Adjust LED
Red LED	7	Impedence to low, check cable pair and sub.
Red LED	8	Impedence to low, check cable pair and sub.
Red LED	9	C/B = C/B button is pressed on short cable run.
Red LED	10	Low = Cable has a short further away beware.
Red LED	11	Cable has a dead short beware.

Green LED No. 6 indicates  $\pm 330$  OHM which is a sub station on a very short cable run at 1KHZ.

To adjust the tester as the battery goes lower press the ADJ & Test button together. Adjust the Preset Pot on the pcb through the hole between the buttons to bring on LED 6.

The tester is only on when the Test button is pressed.

The tester is powered by a 9V PP3 Duracel battery.

### **Guarantee:**

The Imptest 109 is guaranteed by the manufacture for a period of six months from the date of delivery against faulty components and faulty workmanship (ex factory).

#### Manufactured by:

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