

Operation

The operation of the 2080 for testing Insulation, LOOP and RCD Testers is described below :

Functional Checks on Insulation Testers

Test the HIGH OHM ranges of the Insulation Tester by connecting to the black common terminal and either the 1M Ω , 9.9M Ω or 99M Ω (RED Sockets) in the 'INSULATION TESTERS' section and measure the values as appropriate. Note that the 1Mohm socket also checks the applied measurement voltage*. HIGH OHM VALUES MUST BE MEASURED USING AT LEAST 50 VOLTS TEST VOLTAGE.

Test the LOW OHM function (continuity) of the Insulation Tester by connecting to the terminals as indicated on the label to obtain either 0.5W, 2W or 10W as required.

Note - the BLACK terminal is common.

*Note : Certain Insulation testers output the Insulation Test Voltage *reversed* - to allow the test voltage to be measured, simply connect the test leads the opposite way around (ie. Earth connection on tester to 2080 RED terminal, and Line connection on tester to 2080 COMMON terminal).

The AC Voltage measurement range can be tested by connecting to the 230V AC Output.

Note : This is the LINE voltage and is available as soon as the 2080 is plugged in.

Functional Checks on LOOP Testers

> For this function to work the 2080 must be plugged into an unprotected supply.

Plug the LOOP Tester into the 13A socket in the LOOP Testers section. Select the SUPPLY LOOP position on the switch and measure the LOOP displayed on the Tester. Select the LOOP +1W position of the switch and measure the LOOP again - the reading should be 1W higher than the normal LOOP setting.

Functional Checks on RCD Testers

> For this function to work the 2080 must be plugged into an unprotected supply.

Plug the RCD Tester into the 13A socket in the RCD Testers section. Press the RESET button and ensure the 'READY' indicator is ON. Select the current range on the 2080 to match the range on the tester and press the TEST button on the RCD Tester. Read the time displayed on the RCD Tester display which should be between 135 to 165ms for the 10mA & 30mA ranges and 26 to 34ms for the 150mA range.

If the current taken by the tester is correct the tripped indicator will light, if the current exceeds the correct current the overcurrent indicator will light. Note:- The RCD tester must be set to 0° .

Specifications

LOOP Testing	Supply Loop • Supply Loop + 1 Ω	:	5%
Insulation Testing Max. Test Voltage	1M Ω : 9.9M Ω : 99M Ω 1.2kV	:	1%
Continuity Testing Max. Current	0.5 Ω : 2 Ω : 10 Ω 300mA	:	1% \pm 20m Ω
RCD Testing	10mA (Nominal) @ 150ms • 30mA (Nominal) @ 150ms • 150mA (Nominal) @ 30ms		

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