

Portable Insulation Monitoring Tester – Operating Instructions

1 Scope

Includes: Bender IRDH-1065

Excludes: All other portable test sets

2 Preparation

Tools and equipment required but not limited to:

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Work planning considerations:

- Apply the requirements specified by the appropriate Risk Control Sheet for testing live low voltage electrical equipment
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3 'C' Examination

3.1 Insulation Monitoring

Observe and Record on Form EPF/LV/012

- the current system earth resistance reading,
- general weather conditions
- ground conditions

NOTE Observations of weather and ground conditions are needed to allow an assessment to be made regarding the effect of water on the reading.

4 Method

Confirm that the insulated link between L+ and L- sockets on the instrument is present when testing at 650 volts.

Connect the green/yellow flexible lead into the unit PE socket first, then connect the end with the crocodile clip to a sound, clean, reliable earth connection within the panel.

Connect the instrument to the 110 volt source (transformer) and then switch on the power.

Connect the black test lead into the link socket plug L+, and then finally connect the crocodile clip end securely to the live 650 volt termination.

When the test which should be of a duration of 30 minutes is completed and the value of insulation resistance is recorded, the disconnection procedure can be started.

Remove the black lead from the 650 volt live connections first, and then the power supply to the transformer should be switched off. Finally remove the earth lead.

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Warning: if these sequences are not followed it is possible that the 650 volt supply may be connected to the earth lead.

5 References

- If applicable refer to the following associated documents:
 - EPF/LV/012 Insulation monitor record