

RØI RED PHASE INSTRUMENTS

MODEL 4022B EARTH CONTINUITY TESTER



1.0. BRIEF DESCRIPTION.

The Model 4022B is used to access the continuity of connections within an earthing system. The integrity of buried conductors and connectors is difficult to determine. In small systems, a periodic resistance check will highlight any breakages. In larger systems a D.C. continuity check is likely to be of use.

RED PHASE INSTRUMENTS AUSTRALIA PTY LTD ACN 005 176 670

10 Ceylon Street, Nunawading, Victoria, 3131, Australia

Tel: + 61 3 9877 6988 Fax: + 61 3 9878 8508

Email: sales@redphase.com.au

2.0. GENERAL.

The Meter consists of the following major components:

2.1. Base Unit which contains the DC power supply and current source.

2.2. Remote Unit which contains the handheld meter and measurement probe. It is powered by a 9V battery. The remote unit has a fixed 5m lead that connects to the base unit and a 0.8m lead to the probe handle.

2.3. Power Supply Leads for connection to 240VAC 50Hz mains (via IEC lead) or to a 12VDC battery (via a 5m lead terminated with crocodile clips).

2.4. Main Earth Lead which connects the Base Unit to the earth grid (via a 5m lead terminated with crocodile clips).

3.0. PERFORMANCE SPECIFICATIONS.

3.1. The operating range is 0 to 1999mOhms.

3.2. The accuracy is 1% nominal but the unit has a built in calibration checking procedure. Accuracy is also dependant on the unit maintaining the DC injection current and the noise level in the substation.

3.3. The length of the interconnection lead between the Base Unit and the Remote Unit is limited to the loop resistance of the wire being kept to under 8 Ohms.

3.4. The injection current is typically 1A but depends on the external burden and internal supply and heat dissipation parameters.

4.0. ENCLOSURE.

The 4022B Base unit is housed in a moulded case.

5.0. OPTIONAL ACCESSORY

The length of the standard interconnecting lead between the Remote Test Unit and the Base Unit is 5m. An optional 100m extension cable (on a reel) is available.

6.0. SIZE AND WEIGHT.

Main Unit: 275mm X 250mm X 180(H)mm;
approx 2.5kg incl. leads

Remote Unit: 92mm x 86mm x 53(Hmax)mm

Both units are packed shipped in a partitioned transit case measuring 370 x 340 x 340mm and weighing approx. 8kg.



Every care has been taken to ensure that the above data is correct at the time of printing. Always refer to the latest data sheet when purchasing. RED PHASE INSTRUMENTS reserves the right to alter specifications without notice.