BUCKLEYS

MANUFACTURERS OF SPECIALIST TEST EQUIPMENT

Geo Pro2 - geomembrane arc testing kit

test for defects in geomembranes

Image courtesy of GEOQ Pty Ltd

Arc testing kit for geomembranes

Non-conductive geomembranes can be tested using our Geo Pro 2 arc testing kit for post-installation testing of geomembranes before they are put into service - the last opportunity to identify problems before they become very costly to rectify. In the same way reservoirs and pond linings (finished with non-conductive membrane materials) can also be tested.

Waterproof membranes can be tested for pinholes and porosity by using a high-voltage holiday detector. For the test to be effective, the membrane must have either a conductive backing or be laid directly onto concrete or earth.

Faults through membranes can be easily located by passing a high voltage current across the surface using a brush or roller electrode. The equipment is suitable to test all non-conductive geomembrane materials up to 25mm in thickness. Provided an adequate connection ground/earth is available. The Geo Pro 2 arc testing kit can cover large areas rapidly and identify leaks which are too small to see with the naked eye.

Image courtesy of CQA International Ltd

The Geo Pro2 kit

The Geo Pro2 is a geomembrane integrity testing kit which uses Buckleys' tried and tested high-voltage DC technology for the post-installation testing of geomembranes for leaks and faults prior to being placed in service, and can easily test 1000m² per hour in ideal conditions.

The Geo Pro2 caters for a variety of applications and the wide range of accessories and electrodes available allows the Geo Pro2 to adapt to specific testing requirements.

The Geo Pro2 is the result of an exhaustive research, development and design programme which brings the latest technology to the instrument along with a complete redesign of the user interface and a large multi-colour display; making navigating its menus easier than ever and the Geo Pro2 the safest, most intuitive and simple-to-use instrument Buckleys have made yet.

The Geo Pro2's robust and fully-enclosed design comes with an IP65 rating and enables it to withstand the rigours of daily use in challenging environments with ease.

Features

- Compact and portable
- Simple to use
- Multicolour display
- Menu available in EN, FR, DE, ES, IT, PT, PI, TR, RU, NL
- Visual and audible alarm with volume control
- Automatic output voltage selector via a range of standards
- Accurate sensitivity control
- IP65 ingress protection rating
- Compatible with PHD Pro' accessories
- Robust powder-coated, cast aluminium enclosure
- One year 'back to base' warranty
- UKCA and CE approved

Specifications

- Output voltage range: 0.9kV – 40kV
- Membrane thickness range: 25.6mm (using NACE SP0274)
- Sensitivity threshold range: 10µA - 450µA (factory-set to 200µA)
- Meter accuracy: <10kV: +/- 10V. >=10kV +/- 100V
- Built-in test standards: NACE SP0274/NACE SP0490/ NACE SP0188/ASTM D5162/ASTM G62/ISO 21809-2*
- Unit weight: 1.64kg
- Handle weight: 720g
- Packed weight: 13.3kg
- Unit dimensions: 172mm x 85mm x 235mm
- Handle dimensions: 290mm x 85mm
- Packed dimensions: 510mm x 250mm x 630mm
- Battery type: 4 x D-cell/LR20
- Working altitude: <2000m
- Temperature range: 0°C - +40°C

* These standards are pre-programmed and are provided for convenience. However, it is the user's responsibility to ensure that the correct settings are chosen for the intended application of this unit.

What's in the kit?

- Geo Pro2 unit, interconnecting lead & probe handle
- 2 x 332mm mid-section extension rods
- 1 x 332mm end-section extension rod
- Knurled thumb-nut & back-nut
- 450mm phosphor-bronze brush electrode
- 150mm stainless steel drum brush electrode
- Pointed probe electrode
- 150mm flexible probe
- Battery charger and 4 x rechargeable batteries
- 5m earth lead on reel
- 50m earth extension lead
- Padded carry bag with shoulder strap
- ESD Anti-static wristband
- Instruction manual with calibration certificate
- Supplied in high-visibility robust, CNC router cut foam-lined transit case

Geomembrane, reservoirs and pond linings

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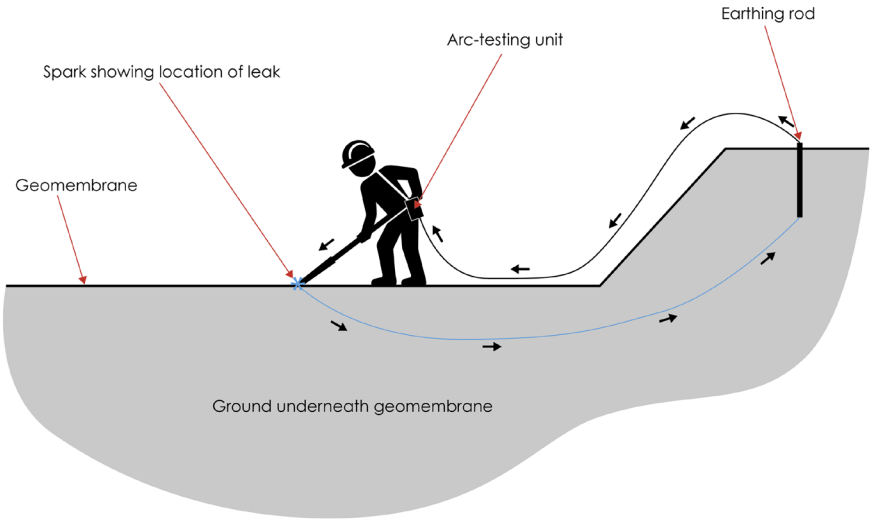

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Accessories and Electrodes

Anti-static Wristband
6005-0531

Seam Probe Tool
6005-0021

Polywire grounding cable 1000m
6005-1014

100m Extension Lead
6005-0076

25m Extension Lead
6005-0075

Seam Probe Electrode
6005-1015

Straight phosphor-bronze brush 45° -
(See E1 Phosphor bronze electrodes Data Sheet)

Roller Electrode
(See E3 Miscellaneous Electrodes Data Sheet)

Straight silicone rubber - 45°
(See E2 Silicone Rubber Electrodes Data Sheet)

For more information on Buckleys products, call our sales team on +44 (0)1303 278888, email sales@buckleys.co.uk or visit: www.buckleysinternational.com

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