



**BUCKLEYS**

MANUFACTURERS OF SPECIALIST TEST EQUIPMENT

**DRY ROOF PRO<sup>2</sup>**

# Flat Roof Leak Detectors

locate roof leaks in wet or dry weather conditions



**WET ROOF PRO<sup>2</sup>**



# Dry Roof Pro2

**Buckleys' Dry Roof Pro2 electronic flat roof leak detector kit offers a rapid and effective method of testing a wide range of non-conductive flat roof coverings.**



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

The Dry Roof 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 Dry Roof Pro2 the safest, most intuitive and simple-to-use instrument Buckleys have made yet.

The Dry Roof 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

- Pinpoint leaks which are too small to see with the naked eye
- Compact and portable
- Multi-colour 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
- Precise sensitivity control
- IP65 ingress protection rating
- Robust aluminium outer casing
- One year 'back-to-base' warranty
- Microprocessor controlled
- CE and UKCA approved



## Specifications

- Output voltage range: 0.9kV – 40kV
- Recommended coating thickness range: up to 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: 660mm x 515mm x 230mm
- 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?

- Dry Roof 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
- Seam probe electrode
- 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

# Wet Roof Pro2

The Buckleys Wet Roof Pro2 leak detector kit has been developed to identify and locate leaks in flat roofs. The instrument can be used on any non-conductive roof surface such as hot-melt, asphalt and single-ply roofing membranes providing the surface and the underlying structure is sufficiently soaked. Additionally, the Wet Roof Pro2 incorporates a Wet Sponge feature, allowing the easy testing of upstands and other vertical surfaces.



The Wet Roof Pro2 generates electrical current within the water on the roof's surface. Leaks in the roof membrane allow water to flow through and contact earthed areas of the structure; completing an electrical circuit. The Detector unit uses two test probes to track the magnitude and direction of current flow to earth and enables the user to locate the leak.

The improved, and even more sensitive Wet Roof Pro2 Detector provides a clear and unambiguous direction signal, meaning the cumbersome beeper is no longer needed and has been removed from the Generator. Our Wet Sponge Tester allows the instrument to test upstands, around pipe fittings, and other previously inaccessible areas. We have also added a short circuit indicator that not only warns you if the trace and ground wires have shorted, but can also be used to test the integrity of your cables prior to testing.

## Features

- Easy to set up and use
- Lightweight
- Increased detector sensitivity
- Includes sponge electrode
- Microprocessor controlled generator & detector
- Clear backlit LCD displays
- Ergonomic detector case with neck strap
- Compact carry case
- One year 'back-to-base' warranty
- CE and UKCA approved



## Specifications

### Generator – Wet Roof Mode

- Output voltage: 12-32V DC user adjustable
- Output power: <10 watts

### Generator – Wet Sponge Mode

- Output voltage: 9-90V DC user adjustable with 5 presets
- Alarm Threshold: 100-1200mA user adjustable

### Detector

- 24-bit ADC; 7V Full-Scale Deflection
- Temperature range: 0°C to +40°C

### Kit

- Mains voltage for charging: 100 to 240V AC 50/60 Hz
- Working altitude: <2000m
- Temperature range: 0°C - +40°C

### Weight:

- 2.1kg (generator unit incl. batteries)
- 0.58kg (detector unit incl. batteries)
- 13.4kg (complete kit)

### Dimensions:

- 169mm x 80mm x 235mm (generator unit)
- 189mm x 37mm x 138mm (detector unit)
- 660mm x 515mm x 230mm (transit case)
- 660mm x 515mm x 230mm (full kit, packed)

## What's in the kit?

- Generator unit
- Detector unit
- 10m earth leads, red and black
- 2 x multi-section test probes
- 100m stainless steel boundary wire on a reel
- Red and black test probe connecting leads
- Seam probe tool
- Rechargeable batteries and charger included
- Black carrying bag for generator
- Pouch with adjustable neck strap for detector unit
- Wet sponge electrode
- Wax crayons for marking faults
- Comprehensive instruction manual
- Certificate of test and conformity
- Supplied in robust, foam-lined transit case

# Typical flat roof types

## Concrete roof deck

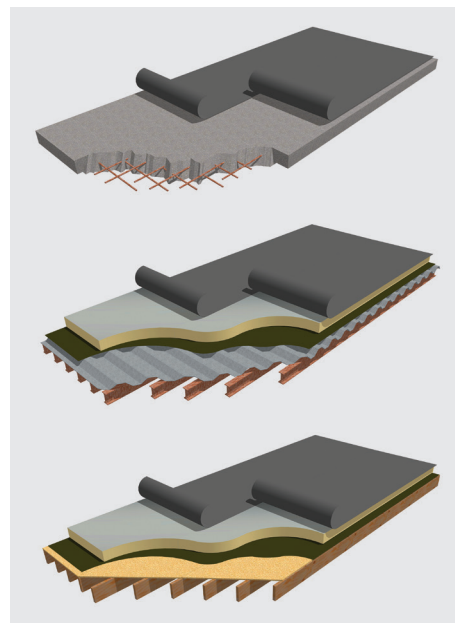
Concrete retains a surprisingly high water content. Even when concrete is 'dry', this ambient moisture content is enough to conduct current and test for leaks. Flaws in the membrane allow the detector to complete an electrical circuit to earth via the concrete and trigger the detector's alarm.

## Steel roof deck

The steel structure below the roof membrane – as well as foil-faced slab insulation – conducts electrical current to earth. Faults in the membrane provide a path for current to pass through and complete an electrical circuit, triggering the alarm.

## Timber roof deck

Whilst the timber structure of the roof itself is non-conductive; foil-faced insulation and water which has 'tracked' to earth through leaks will provide enough conductivity to test with the Dry Roof Pro2 or the Wet Roof Pro2. Many timber-deck roofs with foil-faced insulation have additional earth bonding to the insulation to aid the leak detection process.



# Accessories



Battery Charger  
6005-0625



Thumb-Nut & Back-Nut  
(Dry Roof Pro2)  
6005-0465



High-Visibility Transit Case  
(Dry Roof Pro2)  
6005-0457



Rechargeable D-Cell Battery  
6005-0002



Extension Rod Mid-Section  
(Dry Roof Pro2)  
6005-0459



Extension Rod End-Section  
(Dry Roof Pro2)  
6005-0460



Drum Brush Electrode  
(Dry Roof Pro2)  
6005-0237



50m Earth Extension Lead  
(Dry Roof Pro2)  
6005-0076



Interconnecting Lead  
(Dry Roof Pro2)  
6005-0519



600mm Roller Electrode  
(Dry Roof Pro2)  
6005-0607



ESD Anti-static Wristband  
(Dry Roof Pro2)  
6005-0531



Yellow Wax Crayons  
6005-0050



Seam Probe Electrode  
(Dry Roof Pro2)  
6005-1015



Carrying Bag  
(Dry Roof Pro2)  
6005-0456



75mm Pointed Probe Electrode  
(Dry Roof Pro2)  
6005-0236



Phosphor-Bronze Electrodes  
(Dry Roof Pro2)  
(See Datasheet E1)



Detector Bag  
(Wet Roof Pro2)  
6003-0026



Black 10m Earth Lead  
(Wet Roof Pro2)  
6003-0018



Red 10m Earth Lead  
(Wet Roof Pro2)  
6003-0019



High-Visibility Transit Case  
(Wet Roof Pro2)  
6003-0037



100m Stainless Steel Wire  
(Wet Roof Pro2)  
6005-0492



200m Stainless Steel Wire  
(Wet Roof Pro2)  
6005-0016



Black Detector Lead  
(Wet Roof Pro2)  
6003-0017



Red Detector Lead  
(Wet Roof Pro2)  
6003-0016



Test Probe Tip  
(Wet Roof Pro2)  
6003-0035



Rechargeable AA-Cell  
(Wet Roof Pro2)  
6003-0029



Carrying Bag  
(Wet Roof Pro2)  
6003-0025



Test Probe Extension Rod  
(Wet Roof Pro2)  
6005-0557



Red Test Probe Handle  
(Wet Roof Pro2)  
6005-0559



Black Test Probe Handle  
(Wet Roof Pro2)  
6005-0558



Seam Probe Tool  
6005-0021



Wet Sponge Electrode  
(Wet Roof Pro2)  
6005-0627

Contact us for more information on Buckleys' range of roof leak detection equipment, call our sales team on +44 (0)1303 278888, email [sales@buckleys.co.uk](mailto:sales@buckleys.co.uk) or visit our website: [www.buckleysinternational.com](http://www.buckleysinternational.com)

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