

BUCKLEYS

MANUFACTURERS OF SPECIALIST TEST EQUIPMENT

Wet Roof Pro' Operating Instructions

English Version



Please read carefully before use

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General Description

The Wet Roof Pro' leak detector compliments the existing range of Buckley's Dry Roof Pro' test instrument to provide a complete roof test system for all occasions. The Wet Roof Pro' has been designed as an aid to identifying the source of leaks on roofing technologies that incorporate dielectric membrane overlays. With large easy to read graphics displays and user-friendly icons enabling fast accurate roof surveys to be undertaken.

The Wet Roof Pro' leak detector kit comprises two main elements: A 'generator unit' which provides stabilised low frequency pulses. The negative output is applied to a trace wire bordering the test area and the positive output is connected to a suitable earthed point of the building's substrate. Within the test area - if moisture has penetrated the roofing membrane - electrical current will flow from the trace wire towards the source of the leak; via the moisture on the roof.

By conducting a systematic survey of the roof test area the operator is guided by the detector unit toward the origin of the leak. The leak origin is the fault or point of failure within the roof membrane where moisture has penetrated.

The hand-held survey poles connect to the detector unit allowing for precise location of the leak origin. Both generator and detector units are powered by operator replaceable batteries, either standard disposable alkaline batteries or rechargeable cells which can be charged using the battery charger supplied. The battery charger also has an in-car adaptor to allow charging of batteries whilst travelling between sites.



Attention! The charger is only suitable for recharging nickel-cadmium (NiCd) or nickel-metal hydride (NiMH) cells. Non rechargeable batteries or other types could cause an explosion. Do not attempt to charge zinc/alkaline batteries or other types of non-rechargeable, primary batteries.

Technical Specification

Generator

Output pulse voltage:	32 V DC Output
pulse frequency:	0.25Hz or 0.5Hz
Output power:	<10 Watts
Operating temperature:	+ 4° to + 40°C
Dimensions (L x H x D):	169 x 80 x 235 mm
Weight:	2.1 kg – including batteries
Protection:	Sealed to IP65 rating
Relative humidity:	Maximum 80% non-condensing

Detector

Operating temperature:	+ 4° to + 40°C
Dimensions (L x H x D):	189 x 37 x 138 mm
Weight:	580g – including batteries
Protection:	Sealed to IP65 rating
Relative humidity:	Maximum 80% non-condensing

Battery charger

Input voltage (In-car):	12V - 16V DC
Input voltage (Mains):	100V - 240V AC
Output voltage:	4 x 1.45V and 2 x 10.15V

Accessories

Survey pole length:	3 Section - 1000mm
Trace wire:	200m stainless steel
Transit case weight:	17.5Kg (full kit with accessories)
Interconnecting leads:	1 x 10m, red plug - substrate
	1 x 10m, black plug - trace wire
	1 x 1m, red plug - right survey pole
	1 x 1m, black plug - left survey pole

Unpacking

The Buckleys Wet Roof Pro' leak detector kit and all associated items necessary to conduct a roof survey are supplied in a robust transit case.

Retain all outer packaging to re-use in future should you need to store or return the Wet Roof Pro' for servicing. Please note any damage to the outer packaging before checking the kit contents.

When first unpacking the Wet Roof Pro' kit carefully check each item and report any missing or damaged items. The full kit comprises the following items;

- 1 x Generator unit
- 1 x Detector unit in protective neck pouch
- 1 x Battery charger with mains and in-car adaptors
- 1 x 200m trace wire on reel
- 1 x Substrate connection lead (red plug)
- 1 x Trace wire connection lead (black plug)
- 1 x Hooked seam tool
- 2 x Survey poles (3 sections to each pole)
- 2 x Yellow wax crayon (for marking defects)
- 4 x 'D' cell batteries (Generator)
- 4 x 'AA' cell batteries (Detector)

Safety precautions and symbols



This symbol denotes important information on potential hazards. Please read these sections with particular care.



Attention! Misuse or failure to comply with the guidelines outlined in this manual may impair the safety provided by the equipment.

Controls and Connections

Generator

The Wet Roof Pro' generator unit is housed in a robust waterproof closure with all connections and controls mounted on the front panel.

Fig. 1 details the Generator front panel controls and connections.

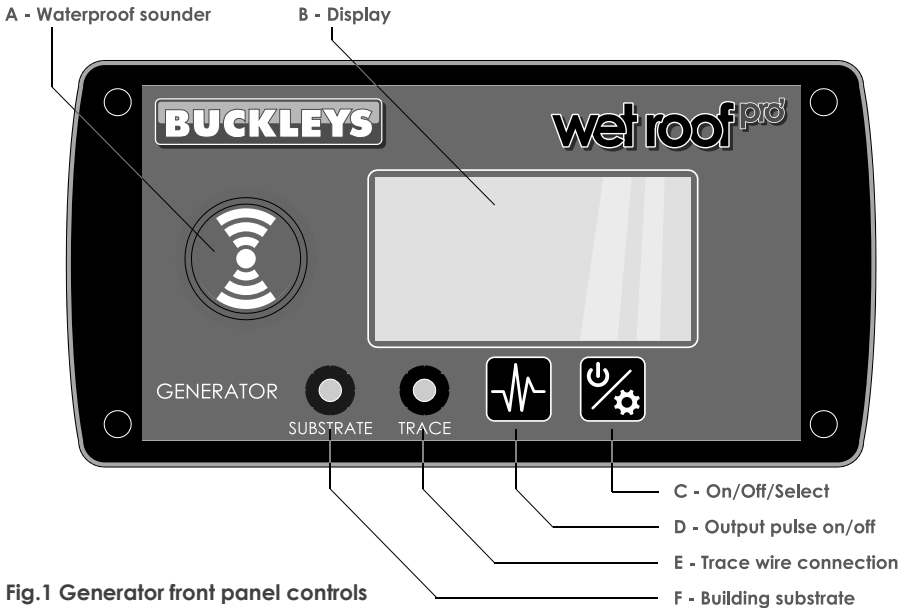





Fig.1 Generator front panel controls

The graphics display [B] displays two lines of information. The upper line concerns the generators pulse functions and comprises pulse icon, frequency/duration and alarm activity. The lower line shows battery status, output voltage, the electrical current drawn by the roof membrane and button indicator icons.

Both  and  buttons (items C & D – fig: 1) are dual function. A single short press of the  activates the generator unit, subsequent short presses step through the various pulse and alarm options (see **fig. 3**).


To switch the generator unit off press and hold the  button for longer than two seconds.

Fig. 2 (below), details the generator graphics display. The pulse frequency and pulse duration can be stepped through three separate settings, these are 0.25Hz at 30% duration, 0.50Hz at 30% duration and 0.50Hz at 50% duration. Each pulse function can either be with or without the sounder active, giving six possible combinations.

NOTE: Hz is the international symbol for frequency. A 0.5Hz pulse equals 2 seconds, while 30% refers to an 'ON' time (voltage present at the output sockets). Therefore, 30% of 2 seconds gives an 'ON' time of 0.6 seconds and 1.4 seconds 'OFF'. The sounder will alarm during the 'ON' period if it has been selected.

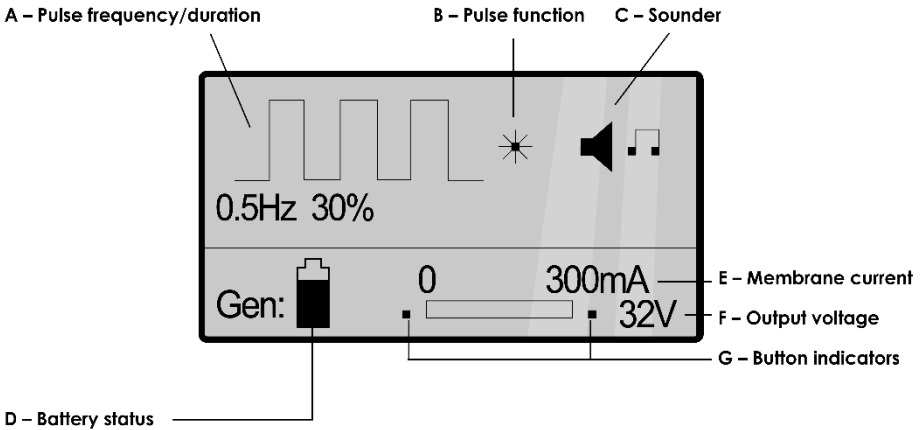



Fig.2 Generator display icons

The  button (item **D - fig.1**) sets the output voltage pulsing at the frequency and duration selected. Whenever the output voltage is present (on) the pulse function icon (item **B - fig. 2**) is highlighted, changing state from plan square to radiating square.

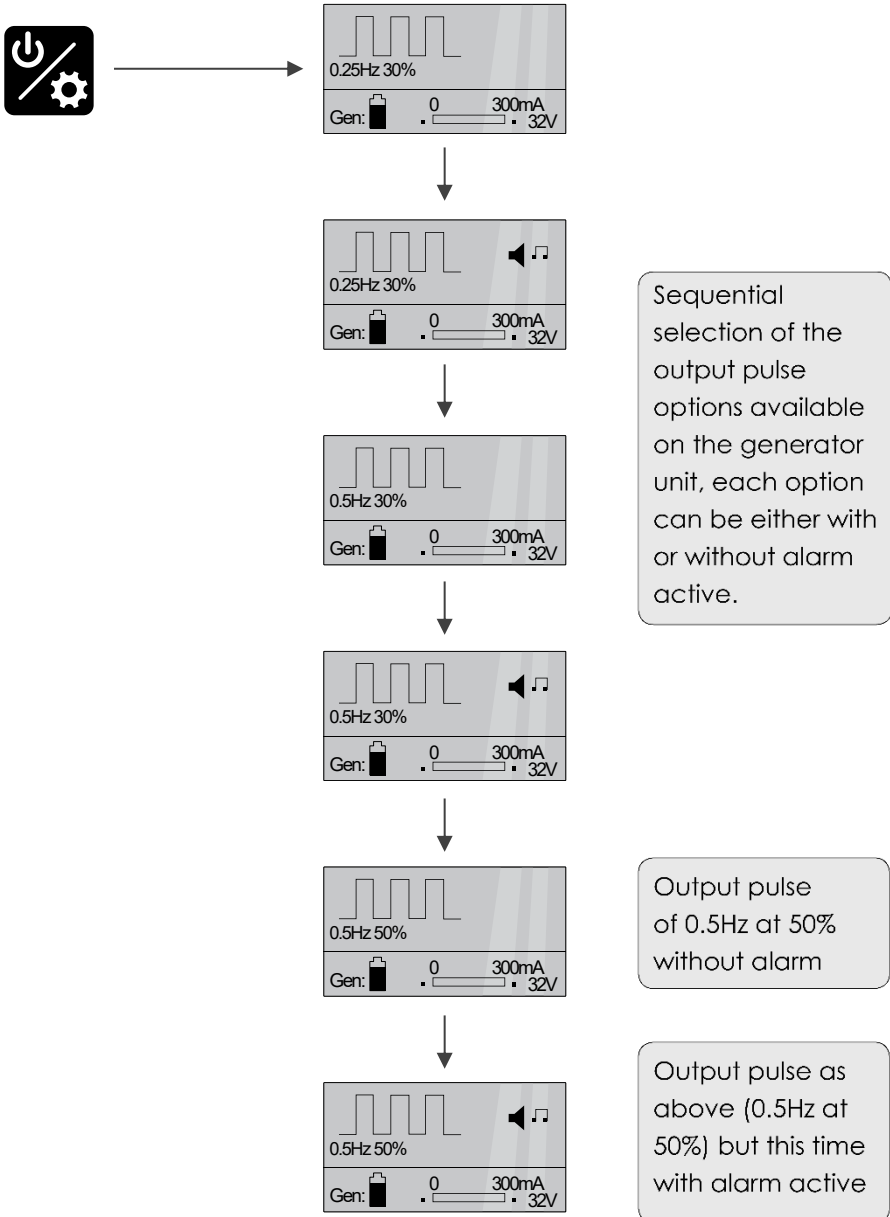


Fig.3 Pulse sequence options

Detector

The **Wet Roof Pro** detector, housed in a waterproof enclosure has been designed to be worn around the operator's neck thereby leaving both hands free to complete the roof survey.

Detector controls and connections are shown **fig. 4**.

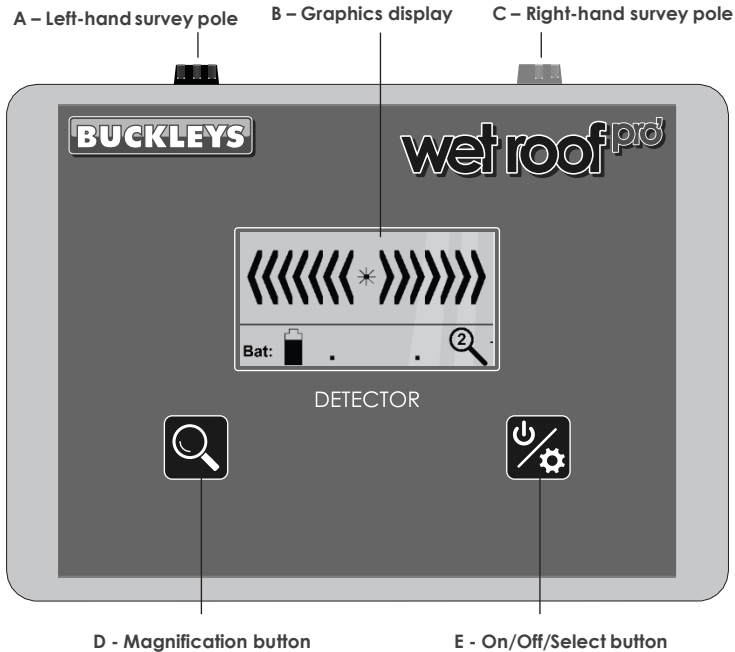




Fig.4 Detector unit

The detector's graphics display is similar to that of the generator unit. The upper line displays left and right direction chevrons with the lower line showing battery status, magnification setting and button indication icons.

Both detector buttons are also dual function. A single short press of the  button switches the detector unit on. The detector has three magnification (sensitivity) levels. Short presses of the  button step through the available levels with the selected setting displayed on the lower line (see **fig. 5**). The higher the magnification setting, the more sensitive the detector's response.

The black and red 4mm sockets (items **A** & **C** respectively – **fig. 4** connect to the colour matched survey poles (left pole = black, right pole = red) using the two short 1m leads supplied with the Wet Roof Pro' kit.

Four 1.5 volt 'AA' style batteries power the detector unit, these are located in the battery compartment at the rear of the unit.

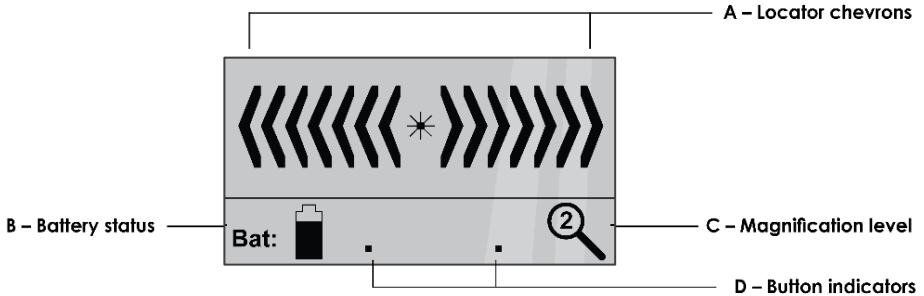

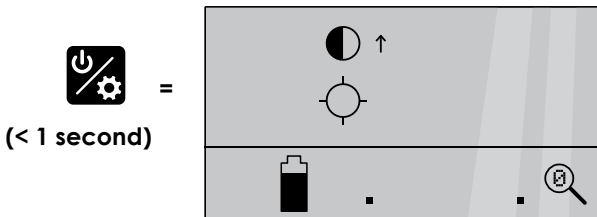



Fig.5 Detector display

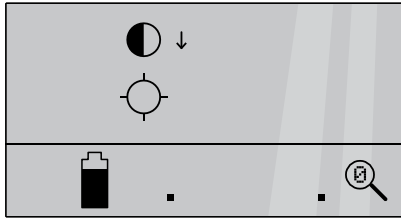
Brightness/contrast adjustment

Once the detector unit has completed its start-up sequence, adjustments to the brightness/contrast of the detector's display can be made by briefly pressing the  button to open the brightness/contrast control:




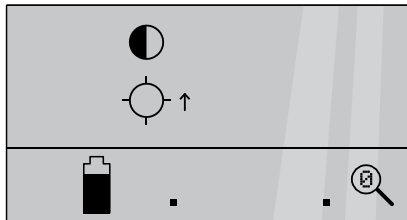
Subsequent presses of the  button will increase the display's contrast.

To reduce the contrast, briefly press the  again and the vertical arrow next to the contrast icon will invert:




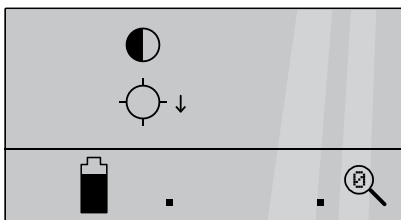
Subsequent presses of the  button will reduce the display's contrast.

To increase the brightness, briefly press the  button again and the vertical arrow next to the contrast icon will invert and move down to the brightness icon:




Subsequent presses of the  button will increase the display's brightness.

To reduce the brightness, briefly press the  button again and the vertical arrow next to the brightness icon will invert:



Subsequent presses of the  button will reduce the display's brightness.

Press the  button to return to the detector's idle screen.

Battery charger

Safety

- Please read these operating instructions carefully before using the charger.
- Do not use the device if there are any signs of damage to the housing, plug or cable. If you do find any damage to the unit, please contact an authorised dealer.
- Use only with NiMH/NiCd cells. Other battery types may explode;
- Please make sure batteries have been inserted with the correct polarity (+/-) prior to use.
- Please note that due to the high charging current, only high quality brand rechargeable batteries should be charged with this device. Low quality cells may leak and damage the charger and invalidate the warranty.
- Keep the charger in a dry place away from direct sunlight;
- To avoid the risk of fire and/or electric shock, the charger must be protected against high humidity and water.
- To clean the unit, disconnect the power supply and only use a dry cloth.
- Never attempt to open the charger.
- Keep out of the reach of children. Children should be supervised to ensure that they do not play with the charger.
- The device is not to be used by children or people with reduced physical, sensory or mental capabilities. In addition, novice users who have not fully read these instructions should be supervised or given instruction before use.
- If the safety instructions are not followed, it may lead to damage to the device or battery and could cause injury to the user.
- We recommend the use of ANSMANN rechargeable batteries with this product.

Technical overview

- Charger for 1 to 4 x AAA, AA, C or D and 1 x 9V E-block; includes USB charging output (5V/1000mA) which can be used at the same time as charging batteries.
- Suitable for NiCd, NiMH batteries
- Reverse polarity protection
- Trickle charging
- For worldwide use (100V-240V AC / 50-60Hz) and car use (12V DC only. Not 24V used in trucks)

For charging round cells:

- Multifunction clear LCD display with backlight
- Adjustable charging current for each charging slot 400mA, 600mA, 800mA for 1-4 rechargeable batteries 400mA, 600mA, 800mA, 1500mA, 1800mA for 1-2 rechargeable batteries
- Individual charging programs for each charging slot:
 - **CHARGE**
 - **DISCHARGE** (discharges battery before charging to minimize the 'memory effect' of batteries)
 - **REFRESH** (cycle of charging and discharging to refresh old batteries)
 - **TEST** (fully charges battery - discharge battery and measures capacity, recharges battery)
- Capacity measurement in mAh/Ah
- The selected charging program can be easily read on the LCD display
- Microprocessor controlled charging and supervision of each battery
- Individual monitoring of the current parameters:
 - **VOLTAGE** (V)
 - **CAPACITY** (mAh/Ah)
 - **TIME** (hh:mm)
 - **CURRENT** (mA)
- Multiple over charging protection per bay and auto cut-off function
- Faulty cell detection/accidental alkaline battery insertion detection

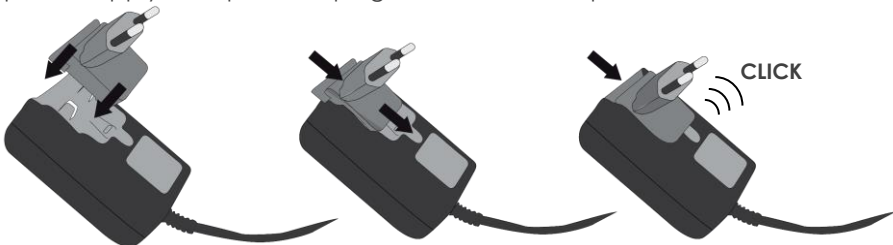
For 9V rechargeable batteries:

- LED charging indication
- Charging current 15mA
- Automatic termination of the charging process by 24-hour timer

Operation

Using the charger in a mains power outlet

Insert the input plug included on the two power contacts, located on the power supply, and push the plug until it clicks in to place.



Please ensure that the input plug 'clicks' into the power supply to ensure the unit is safe to use. Connect the power supply to the charger. Finally, connect the power supply to the mains (100-240V AC 50-60Hz).

To change the input plug, push the locking lug below the plug (e.g. using a pen) until the plug can be moved slightly upwards. Then remove the plug.

Using the charger in a vehicle

Connect the DC charging cable to the charger. Connect the DC charging cable to the 12V DC car socket of your vehicle (**do not use in 24V DC truck sockets**). Please make sure that the power of the socket is switched on. Some cars require the ignition to be switched on.

The charger is now ready for use. You can insert one 9V E-block and up to 4 AA/AAA/C/0 (in any combination) NiMH or NiCd rechargeable batteries. You can also connect an USB cable using the USB charging socket to charge other devices such as, smartphones or MP3 players. Insert all batteries with correct polarity, corresponding to the symbols in the charging slot.

Charging of round cells

The charger has 3 function buttons; '**CURRENT**', '**DISPLAY**' and '**MODE**' (see 'A' in illustration on page 16). Use these buttons to select the following settings:

- **MODE** button

Push the '**MODE**' button within 8 seconds of inserting 1-4 rechargeable batteries, to access one of the following charging programs:

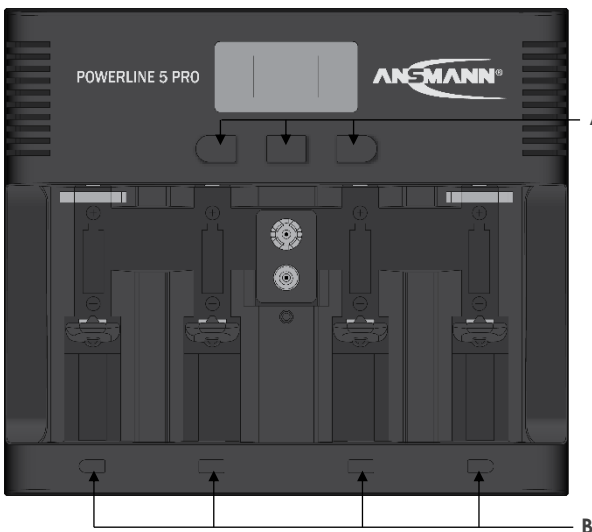
- A CHARGE: Charges battery. After charging is complete, charger will automatically switch to trickle charging (trickle charge will commence after all modes)
- B DISCHARGE: Discharges battery before charging to minimize the 'memory effect' of batteries
- C REFRESH: 'DISCHARGE REFRESH' or 'CHARGE REFRESH' status is shown on the LCD display when charger cycles between discharging and charging. This process will refresh old batteries and bring totem back to the maximum capacity. Refresh will be repeated (max. 10x) until the charger can no longer register a rise in capacity.
- D TEST: Fully charges battery. LCD display shows 'CHARGE TEST' Discharges battery and measures capacity. The LCD shows 'DISCHARGE TEST'. Recharges battery, ready for use. LCD shows 'CHARGE TEST'.

- **CURRENT** button

Push the 'CURRENT' button within 8 seconds of selecting a charging program or after inserting batteries to select the charging current for the program 'CHARGE' or 'TEST'. Alternatively, choose the discharging current for the program 'DISCHARGE' or 'REFRESH'.

- **DISPLAY** button

Push the 'DISPLAY' button whilst charging or discharging to display the charging/discharging current (mA), the voltage of the rechargeable battery (V), the charging/discharging capacity (mAh or Ah) or the remaining charging/discharging time (hh:mm).



Once the settings have been selected, the charger automatically starts with the selected parameters after 8 seconds. If no settings are chosen, the LCD display will flash after inserting rechargeable batteries. First the voltage of the rechargeable batteries as well as the pre-set charging program 'CHARGE' is shown. Next, the pre-set

charging current of 600mA is shown. After 8 seconds the charging process starts automatically using the pre-set parameters.

By using the 4 charging slot buttons (see 'B' in illustration above) you can make individual settings for each rechargeable battery. To change a function for a single rechargeable battery, press the corresponding button below the charging slot for the chosen battery. The display will flash for this battery and you can now change settings, as described above, for the single charging slot using the function buttons 'MODE' and/or 'CURRENT'.

If only one or two rechargeable batteries are inserted into the charger using the two outer charging slots, in the mode 'CHARGE' and 'TEST' the charging current can be increased up to 1500mA or 1800mA with the 'CURRENT' button. In this case the inner charging slots are disabled and cannot be used. When charging three or four rechargeable batteries at the same time, the charging current can be set to 400mA, 600mA or 800mA. Using the programs 'DISCHARGE' and 'REFRESH' discharging currents of 200mA, 300mA or 400mA can be selected. The charging current is generally twice as high as the chosen discharging current.

A few minutes before the rechargeable batteries are completely charged, the charger reduces the charge current to ca. 200mA, regardless of the previously selected charge current. This gentle full-charging extends the service life of your rechargeable batteries.

After every charge/discharge procedure is complete, the charger adds a short pause for the benefit of the rechargeable batteries before continuing with the selected charging/discharging program.



ATTENTION: Please ensure that the rechargeable batteries are designed for the respective charging current. For example, AAA rechargeable batteries should not be charged with a 1500mA or 1800mA charging current. We recommend choosing the maximum charging current (mA) so that it does not exceed the capacity value (mAh) of the inserted rechargeable battery.

It is normal that batteries may become warm during charging. After charging is complete, the charger switches automatically to trickle charge. The trickle charge prevents self-discharge of the batteries when left in the charger.

LCD Display

'- --' is shown when there is no rechargeable battery inserted but the charger is connected to mains.

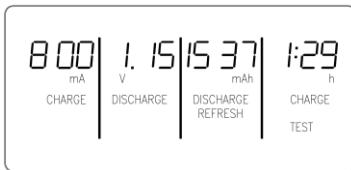
'- -- mAh' is shown during the first charging cycle when in 'TEST' mode.

'Full' is shown when the charging process is finished and the charger switches to trickle charging, after finishing the charging program 'TEST' or

'REFRESH', the display switches between 'Full' and the measured discharging capacity in mAh/Ah.

'ERR' and 'Lo' are displayed alternately if the rechargeable battery inserted has an internal short-circuit and so is defective.

'ERR' and 'Hi' are displayed alternately if the rechargeable battery inserted exhibits a very high resistance or a non-rechargeable battery is inserted. In such cases, no charging occurs. Please remove the defective batteries and dispose of these in an environmentally friendly manner.



During the charging process, the pre-set parameters are displayed as mentioned under point 3 (DISPLAY). In addition, the chosen charging program and the current process (CHARGE or DISCHARGE) are shown.

In the illustration above you can see an example of the LCD display. This example shows 4 different display modes and 4 different charging programs.

Charging 9V rechargeable batteries

One 9V battery can be charged, if no D-cells are inserted in the inner round cell charging slots. When inserting the 9V battery, pay attention to the correct polarity referring to the symbol in the charging slot. The LED charging indicator illuminates red when the battery is inserted correctly. 9V batteries are charged with a gentle current of c.15mA. After approx. 24 hours, the charge process ends automatically and the LED illuminates green. The rechargeable battery is charged and will be supplied with the trickle charge current so long as it remains in the device. If the indicator flashes red, the battery has an internal short circuit and should be disposed of.

Technical data

Input voltage external power supply:	100-240V AC / 50-60Hz
Input voltage car adapter:	12V DC (Do NOT use with 24V sockets)
Input voltage charger:	12V DC
Charging current for round cells:	400mA - 1800mA
Charging current for 9V batteries:	15mA
Maximum charging capacity:	11000mAh for round cells 300mAh for 9V block-style batteries
USB-charging socket:	5V/1000mA

Operation Principle

Wet roof leak detection relies on the roof's surface moisture forming an electrically conductive path to earth via the building substrate.

The Wet Roof Pro' utilises the conductive properties of water to allow the operator to locate the source or origin of a leak. This method is also known as voltage gradient mapping or vector mapping.

Fig. 11 shows a representation of how lines of equal voltage (similar to ripples on a pond) may appear in a test area with a single fault and how the Wet Roof Pro' detector unit would display the measured potentials (voltage).

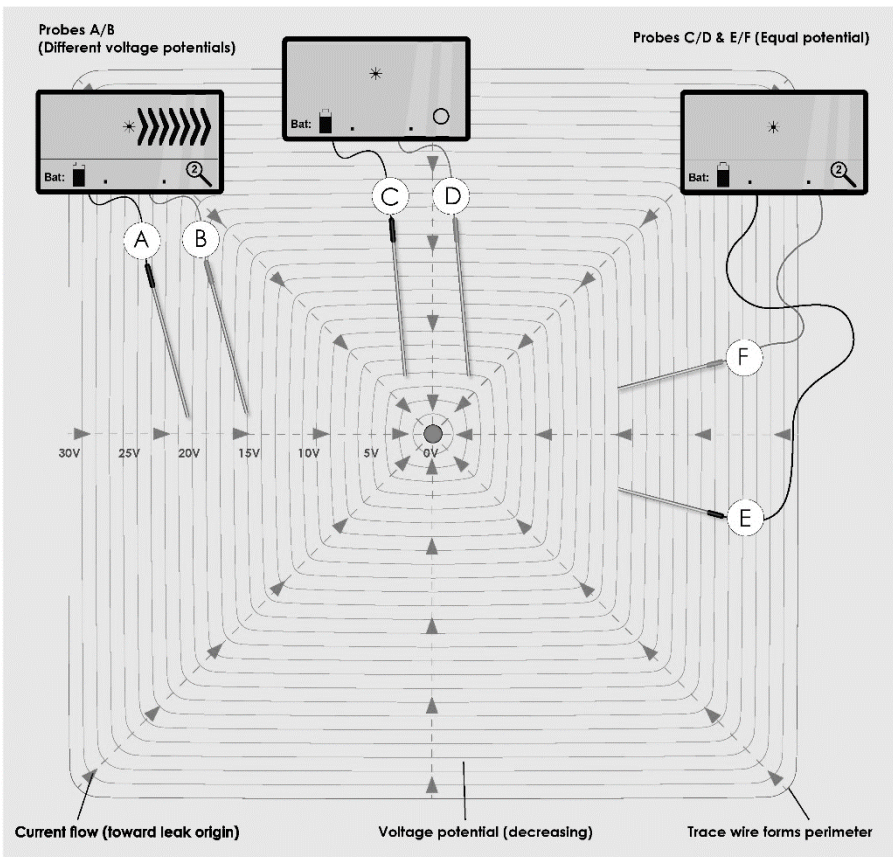


Fig.11 Principle of operation

The stainless steel trace wire is used to form a conductive perimeter around the area of roof to be tested and is connected to the negative output of the Wet Roof Pro' generator unit.

The positive output of the Wet Roof Pro' generator is connected to a suitable earthed point of the building substrate. When the generator unit pulses a voltage is applied to the trace wire, electrical current flows from the trace wire toward the origin of the leak (denoted by the blue lines).

As current flows the measured voltage potential (Dark blue/black concentric rings) decreases as the voltage approaches the leak origin.

It therefore follows that the further the survey probe are set apart, the greater the number of directional chevrons that will be displayed. This is due to there being a larger voltage difference between the two poles.

In **fig.11** the difference between measured voltage potentials at probes **A** & **B** is approximately 6.0 volts, the detector unit will therefore display direction chevrons to the right (due to current flowing from left to right i.e. trace wire to leak origin).

Probes at points **C** & **D** will show no direction because both probes are on lines of equal voltage potential (20.0 volts) as are probes at points **E** & **F**. As the detector unit displays the directional chevrons, it is the direction of the chevrons not their magnitude that the operator is guided by.

The voltage potential or gradient within a test area can be somewhat unpredictable due to several variables, these include salinity of the water and the electrical resistance of the fault to building earth point. The greater the moisture penetration between roof membrane and building structure the greater the current flow will be.

Using the Wet Roof Pro'

Preparation

Before conducting a survey, the roof must be wet and the trace wire needs to have been laid down to form a perimeter bordering the area to be tested. Use the 10m lead (clip to black plug) to connect the ends of the trace wire to form a closed loop.

It is also important to ensure that there is good contact between the trace wire and roof surface to ensure an efficient survey can be conducted.

If necessary the trace wire may be weighted down or fixed in position with adhesive tape if possible.

Structures protruding through the roof such as ventilation shafts and drain pipes must be screened off by either looping around them with the trace wire or an additional loop of wire which must be connected to the main trace wire. Defects and faults located in a membrane during test can also be isolated in this way in order to continue testing for further leaks (see **fig.12**).

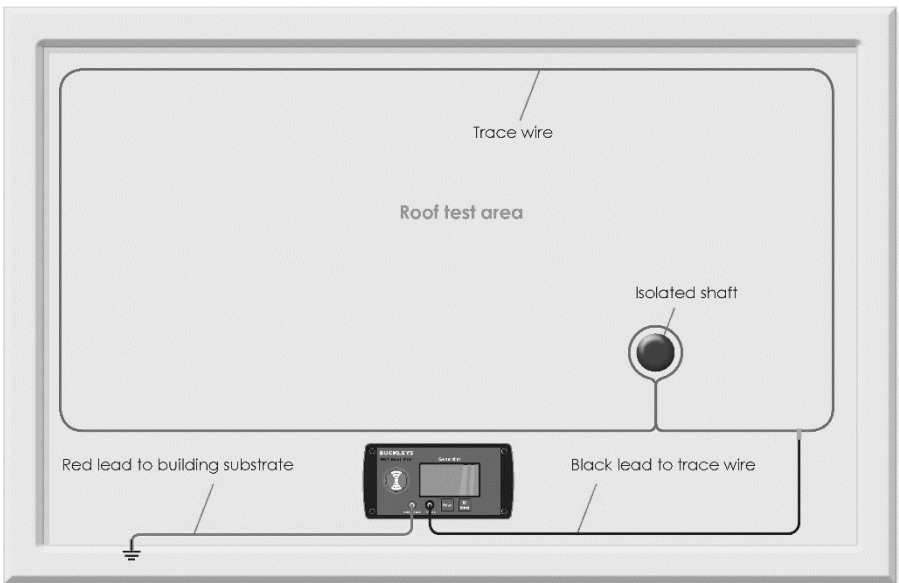


Fig12. Wet Roof Pro' Generator connections

Prior to using the Wet Roof Pro' for the first time the batteries will need to be installed, once inserted the batteries can remain in the units until charging is required.

To fit the generator unit batteries (4 x 'D' cell) remove the twist-grip cap from each battery tube located on the rear of the unit and slide two batteries into each battery tube (positive to cap) as shown in **fig. 13a** and refit the caps.

To fit the detector batteries, firstly remove the detector unit from its protective neck pouch and open the battery compartment cover located on the rear of the case. Next, observing the correct polarity, insert an 'AA' cell into each of the four battery slots.

NOTE: Although the battery compartment has five positions only four batteries are fitted to the detector unit (see figure 13b).

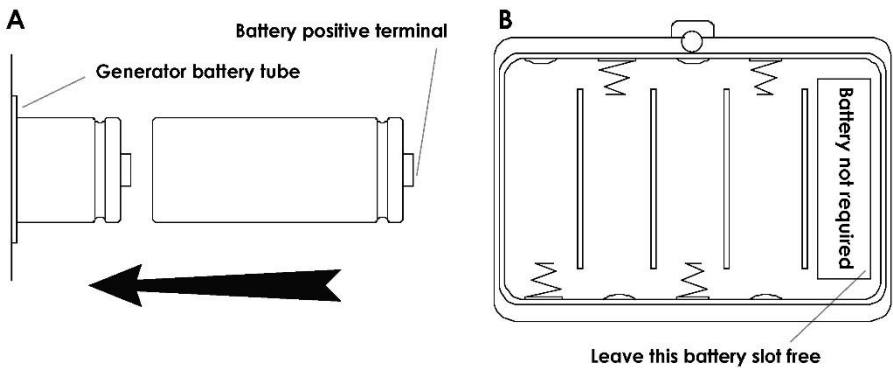


Fig13. Fit batteries A - Detector Unit, B - Generator Unit

Connect the 10m lead (black plug) from the trace wire to the negative output socket of the Wet Roof Pro' generator unit with the positive output of the generator connected to a good building earth (substrate) point this time using the 10m red 4mm plug to crocodile-clip lead.

Attention! Avoid submersing the generator units output sockets in standing water as this could cause a short-circuit across the output sockets.

The generator unit should ideally be raised above any standing water on the roof surface. If it is not possible to site the generator in a dry place then the trace wire reel can act as a stand to raise the unit away from the water.

The left and right hand survey poles comprise of three sections, an upper handle, a middle section and the lower probe-tip section. To assemble the survey poles, simply screw the sections together.

Connect each survey pole to the detector unit using the respective 1m red and black test leads (stored in a small pocket on the rear of the detector's protective neck pouch).

Surveying

When all preparations as detailed on page 20 have been completed, switch both generator and detector units on. Select the required generator pulse frequency, duration and alarm.

Once inside the test area, position the poles at a comfortable distance apart on the roof surface and begin the survey at one corner of the trace wire perimeter.

Interference may cause a slight offset to be noticed on the detector, but not in a pulsed manner. The direction of the observed pulse indicates the direction of the leak. Note that it is the direction and not strength of the pulse that is important.

One possible method for conducting a survey is to follow a course similar to that of mowing a lawn, continuing along the roof to the opposite corner of the trace wire then turn through 180° and return. As you turn, the direction response will switch sides.

Alternatively, continue in the direction of the pulse until the detector reading swings in the opposite direction, indicating that you have passed the leak origin. Now turn through 90°, measure in a direction perpendicular to this line, see **fig.14** for detail (also refer to **fig.11**).

During testing if a momentary weak pulse is detected which always leads to the centre of the test area, this indicates that no leaks are present. This may be verified by shifting the position of the trace wire, which will shift the apparent origin of the weak pulse respectively.

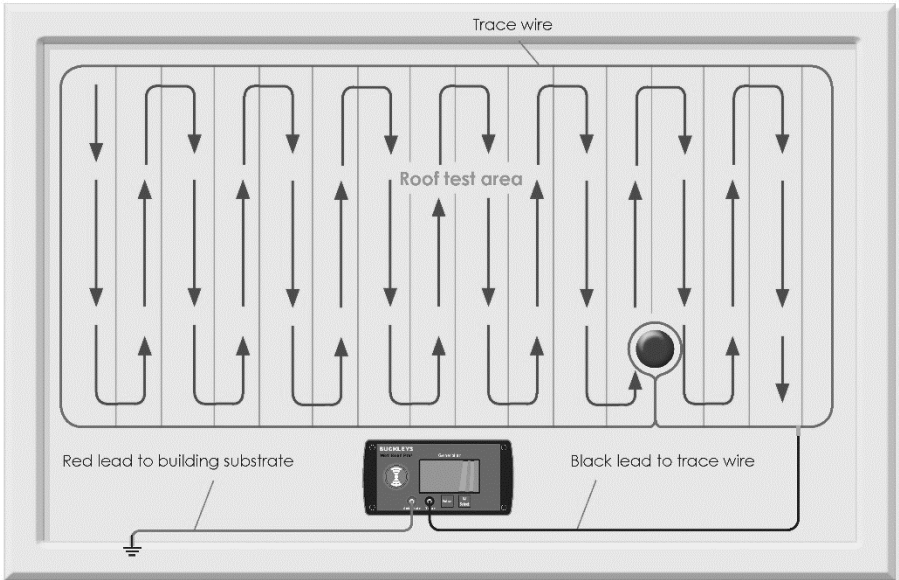
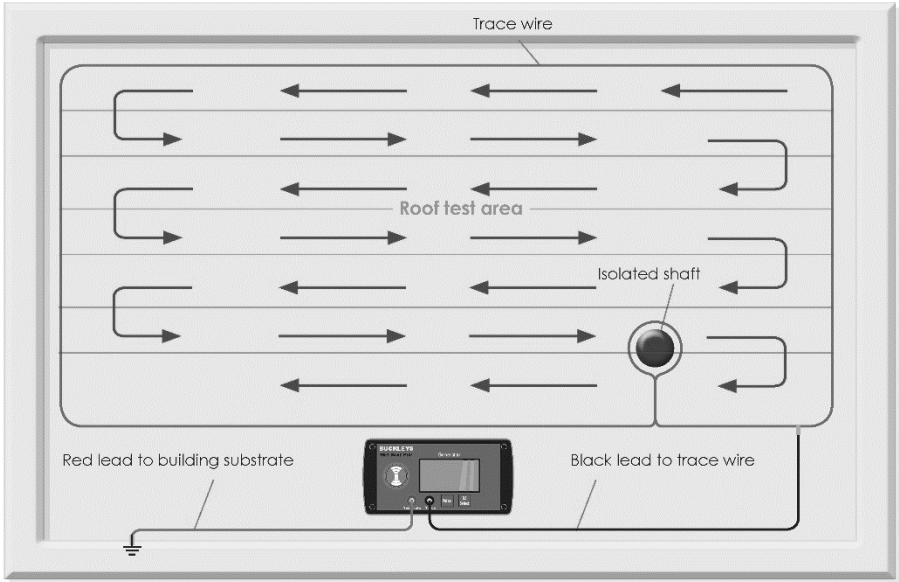


Fig.14 Roof survey

Maintenance

We strongly recommend the Wet Roof Pro is serviced annually by Buckleys (UVRAL) Ltd. or one of our approved service & repair agents in order to ensure it works at optimum performance, accuracy and safety.

By registering your Wet Roof Pro's warranty at the time of first purchase, we will send annual reminders for scheduled maintenance as well as extending the warranty. For more information, see the flyer enclosed with this manual.

Remove batteries from both units if they are not going to be used for a prolonged period of time.

Regularly inspect all items and accessories within the Wet Roof Pro' kit, checking for damage. Check the integrity of the survey poles (fully assembled) and all leads, replacing any that are damaged or broken.

The exterior of both units should be cleaned regularly using a moistened cloth. A mild detergent mixture can be used for more stubborn stains (99% water + 1% mild detergent).

Do not use abrasive cleaners as this could damage the display lens. Under no circumstances should cleaning fluids be allowed to enter the input/output sockets of the units.

Disposal information

Producer registration number: WEE/HJ0051TQ



This product must be disposed of in accordance with UK WEEE regulations.

For further information on UK WEEE regulations click on:

www.gov.uk/government/publications/weee-regulations-2013-government-guidance-notes

EC Declaration of conformity

We:

Buckleys (UVRAL) Ltd

As manufacturer of the apparatus listed,
declare that the product:

Wet Roof Pro'

Is manufactured in conformity with
the following directives:

2104/30/EU

2014/55/EU

Authorised by:



J P Hoveman

CEO, Buckleys (UVRAL) Ltd.



Contact details

Manufacturer: Buckleys (UVRAL) Ltd

Address: Buckleys House
Unit G, Concept Court
Shearway Business Park
Shearway Road
Folkestone
Kent CT19 4RG, UK

Tel: +44 (0)1303 278888

Fax: +44 (0)1303 274331

Website: www.buckleysinternational.com

Distributor details

Product registration

Thank you for choosing a Buckleys product, we are sure it will provide you with many years of reliable service.

Please register this product via Buckleys' website and download the Warranty Registration Certificate.



Register your product in 5 minutes

Once your product is registered, you will receive the following benefits:

- **FREE** annual service & calibration reminders by email
- **Latest** industry news relating to your product
- Be the **first** to hear about our new products

We strive to improve the quality of our products and service.

Registering your product helps us monitor overall quality of our products, service and dealer network. Additionally, if we ever need to contact you regarding your product, we are able to do so immediately.

We will also send you annual service/calibration reminders by email to help ensure your product is always in perfect working order.

To register your product, simply visit:

www.buckleysinternational.com/registration

...Complete the online form and click on SUBMIT.