OPERATING INSTRUCTIONS

BASE UNIT

CONTROL PANEL

1. POWER ON:

Press ⏻ to power on both the Base Unit and the Control Panel Meter.

2. LED Indicators:

- Base Unit LED and one of the Range LEDs will both flash when in infrared communication.
  OR
- Base Unit LED is solid when Control Panel Meter is OFF.
- Control Panel Meter LED is solid when Base Unit is OFF.
- Control Panel Meter LED will show the last used range.

①	**Infrared window**
②	**Screw fastner for electrode mat**
③	**ON / OFF - Base Unit**
④	**ON / OFF - Control Panel**
⑤	**Range Button**
⑥	**LED Range indicators**
⑦	**HOLD function / AUDIO signal button**
⑧	**SET POINT calibration knob**

3. RANGE selection:

Press ▶ to select the desired range. The selected range LED light will flash. There are 3 Ranges, and they should be selected as best suits the surface under test, for example:

- Range 1- Most suitable for single-ply and thin roof coverings such as PVC, Hypalon and other smooth surfaces where insulation is wet and moisture is close to the surface.
- Range 2 - Most suitable for multi-ply built-up and modified systems, mineral surfaced felts, and other smooth or gravel surfaces where insulation is less wet and moisture is below the surface.
- Range 3 - Most suitable for thicker roof coverings such as mastic asphalt, thick gravel and stone surfaced roofing.

4. CALIBRATION:

A known acceptably dry area serves as a reference dry reading standard for the set up of the instrument.

- **A known acceptably dry area** of the roofing system, choose the most appropriate range. Use the 'Set Point' knob to set the reference point to just above zero to engage sensitivity.

- **A known acceptably dry area:** If a known acceptably dry area can not be identified, position the DEC Scanner over what you consider to be a dry area. Adjust the 'Set Point' knob until the needle points to mid-scale (50). Move the instrument around the roof, following the direction of the lower readings until the area with the lowest reading is found. Now set the reference point to just above zero to engage sensitivity.

5. HOLD function:

Press 🔀 while reading to HOLD a comparative reading. The needle freezes on the analog dial. The Base Unit LED remains solid while the Control Panel range LED flashes.

Press 🔀 again to release the HOLD function. The needle is unfrozen on the analog dial. The Base Unit LED and the Control Panel Range LED both flash.

6. AUDIO signal:

Press 🔀 two times in quick succession to turn on/off the audio signal.

When on, this will beep to indicate readings of over 5 on the comparative dial. The audio signal will beep increasingly fast as moisture readings increase.

If communication between the Base Unit and the Control Panel Meter is interrupted, the reading is memorized until communication is restored.

You may now begin your roof survey.
Please read the User Guide for further information on conducting roof surveys and tracing leaks.

Thank you for selecting the Dec Scanner instrument from Tramex.

The Tramex Dec Scanner is a non-destructive impedance moisture scanner designed for detecting and evaluating moisture conditions in roofing and waterproofing systems. The Dec Scanner has 3 ranges of sensitivity to enable the surveying of a variety of roof types and roofing depths, and is equipped to detect moisture in the majority of roofing and waterproofing systems.

ASSEMBLY INSTRUCTIONS

1. Remove the Base Unit from the carry case using the grab handles.

2. Check the tightness of the 8 electrode mat retaining screw fasteners.

3. To insert the telescopic handle:
- Fully open the flip-lock mechanism
- Extend the lower part of the handle
- Insert the threaded end into the Base Unit and turn clockwise until tight and secure.

4. Ensure the 'arrow label' is centered for optimal infrared communication between the Base Unit and Control Panel Meter. Close and lock the flip-lock.

5. Adjust the hand piece to the desired left-hand or right-hand position.

6. Clip the Control Panel Meter onto the meter bracket.

DEC SCANNER