

**TRAMEX**<sup>TM</sup>  
**RWS**

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# Roof & Wall Moisture Scanner

**Multi-mode moisture scanner for non-destructive moisture detection and leak tracing in the building envelope including:**

- **Built-Up**
- **Non-Conductive Single Ply**
- **Modified and Foamed Roofing Systems**
- **Exterior Insulation and Finishing Systems (EIFS).**

The **RWS** incorporates two of Tramex's well-known moisture scanners, the Leak Seeker for Roofing, and the Wet Wall Detector for EIFS, incorporating all the benefits and features of both these time proven instruments into this one instrument.

The **Tramex RWS** has dual operating modes for EIFS and Roofing. Each of these modes has 2 ranges of sensitivity for both deep and low penetration sensitivity, enabling the scanning of Roofing, and EIFS, with a signal penetration ranging from the surface up to approximately 4" (100mm).

The **RWS** is designed and manufactured by Tramex who have been producing a range of moisture detection and scanning instruments since 1980.

## The Tramex RWS

- For non-destructive moisture evaluation of Roofs and EIFS Building Envelope.
- For tracing leaks into the waterproofing membrane back to the source.
- Fast and easy to operate.
- Instant clear readings.
- "Hold" function facilitates ease of recording readings.
- Lightweight hand held and battery operated.
- Inexpensive to purchase and operate when compared with other non-destructive testing methods.



## The Problems of Excess Moisture in the Building Envelope.

By visual inspection, the location of excess moisture and decay in or behind EIFS or Roofing Systems can be difficult and near impossible, as normal evidence of this moisture and decay may not be visible on either side of the wall or roof. Excess moisture can be hidden and trapped in the substrate and within the thickness of the wall or roof construction. If these conditions are allowed to continue the moisture will increase, eventually leading to rot and decay and possible failure of the system and the structure. Also wet insulation loses its thermal value resulting in unnecessary heat loss or gain and thermal movement in the structure. Early detection of wet areas and corrective remedial action makes good economic sense.

## How does the *RWS* Detector Work?

The *Tramex RWS* is an electronic hand-held Moisture Scanner and Detector working on the principle of electrical impedance. With impedance measurement, harmless signals are transmitted from the electrodes at the base of the instrument deep into the thickness of the area under test. These signals measure the change in electrical impedance which is translated into a relative moisture content reading and instantly displayed on the clear large analog dial. Readings are instant and continuous. The *RWS* is also fitted with an audible device which sounds at high readings. The *RWS* gives vital information necessary to evaluate and carry out moisture assessment on the condition of most fiber reinforced EIFS wall cladding systems, roofing systems such as built up, non-conductive single ply, modified and foam roofing at an affordable cost and without complications.

## The Fast Non-Destructive Way to Detect Excess Moisture.

For EIFS, the *Tramex RWS* has been especially developed to aid in the detection, location and tracing of excess moisture within the weatherproofing coatings or coverings, and deep into the insulation and substrate to detect excess moisture in the sheathing and the wood studding of EIFS systems. For Roofing it will detect interply moisture, excess moisture in the insulation material, and moisture in or on non-conductive roof decks.

It is easy and fast to use, light to carry and can be operated with one hand. Having detected and located the areas of excess moisture the *RWS* can be of great benefit in tracing this moisture back to its point of ingress or source.



### SPECIFICATION

- Dimensions:** 125mm x 275mm x 75mm / 4.75" x 11" x 3"  
**Weight:** 1.8kg (4lbs)  
**Power Supply:** One 9 volt battery  
**Sensitivity:** Four ranges:  
EIFS Mode with high and low sensitivity.  
Roofing Mode with high and low sensitivity.
- Accessories:** Leather carrying case. Telescopic handle for use on roofing only.
- Limitations:** Roofing: EPDM, Butyl rubber roofing and other conductive roofing.  
EIFS: Hard Coat Stucco, wire lath or wire mesh reinforced finishes.

### WARRANTY

The *RWS* carries a full parts and labor warranty for a period of one year from the date of first purchase.

Tramex manufactures a range of moisture meters including: Probe-type Resistance Meters with a choice of electrodes for Roofing and Walls and Non-Destructive Moisture Meters for Flooring, Roofing, Wood and Building Inspection.

The *RWS* is available in Inspection Kit form for Moisture Detection and Evaluation of EIFS and Roofing systems and substrate. Kit containing (1) *RWS* (2) Pin type resistance meter with built in pins (3) Hand held electrode with 7" insulated pins, and with spaces for optional IR Thermometer and Digital Hygrometer.