

# BUILDING SURVEY INSPECTION KIT



Tramex moisture meters are designed to locate elevated moisture & humidity conditions, which may be conducive to mold, microbial growth and wood destroying organisms. These damp conditions can often be hidden within or behind a material such as drywall and not obvious from visual inspection without the help of a non-destructive moisture meter. Once the moisture source is identified and stopped, remedial action can be taken leading to a healthier building environment. This complete moisture and humidity testing kit features the multifunctional Tramex MRH III digital moisture meter allowing for non-invasive testing of moisture conditions in numerous building materials such as drywall, wood, plaster, brick, ceramic tiles, resilient flooring, laminates and roofing. The MRH III and reusable Ambient Relative Humidity Hygro-i2 Short Probe allow for testing relative humidity, temperature and dew point in the environment. When used in conjunction with the infrared surface thermometer, detrimental condensation conditions conducive to microbial growth can also be identified. The heavy-duty pin-probes measure moisture content in wood, and the insulated 200mm (7.8") pins allow for deep wall cavity probing. Concrete slab relative humidity testing to ASTM F2170 can also be performed with reusable relative humidity probes and hole liners (optional).



## KIT CONTENTS

Product Code: BSIK5.1

1. MRH III – moisture and humidity meter.
2. Ambient Relative Humidity Hygro-i2 Short Probe.
3. Heavy-duty pin-type wood probe.
4. Heavy-duty pin-type wood hammer probe.

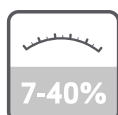
5. 200mm (7.8") insulated pins for in-depth penetration.
6. Infrared thermometer.
7. Calibration Check Salts for Relative Humidity probe.
8. 8 x Ambient RH Probe Hole Liners.



NON-DESTRUCTIVE



AMBIENT  
RH, T, DP, g/kg



WOOD %MC PIN  
READING RANGE



COMPARATIVE  
READING RANGE

# SPECIFICATIONS

## MRH III - SPECIFICATIONS & MEASURING RANGE



The Tramex MRH III Moisture and Humidity Meter is a hand-held digital moisture meter calibrated for most building materials. It also attaches to an optional plug-in Tramex Hygro-i2<sup>®</sup> relative humidity probe and heavy-duty pin type electrodes. Suitable for many industries including Water Damage Restoration, Flooring, Indoor Air Quality, Home Inspection and Pest Control.

Size:	150mm x 85mm x 38mm (6" x 3.5" x 1.5")	Reference scale for building materials:	0 to 100
Weight:	8.47oz (240g)	Relative Humidity	0 → 99%
Construction:	ABS Body	(with optional Hygro-i2 <sup>®</sup> probe):	
Power:	9 volt PP3 (included)	Wood Non-invasive Mode (at SG of 0.3):	5 to 55% MC
Display:	Digital	Wood Invasive Mode:	7 to 40%MC
Depth of penetration in concrete:	up to 30mm (1 <sup>1</sup> / <sub>4</sub> ")	(with optional wood pin probes)	

## INFRARED THERMOMETER - IRT2 - SPECIFICATIONS & MEASURING RANGE



The IRT2 is a handheld, dual laser, non-contact Infrared Thermometer with 12:1 distance to spot ratio and audible and visible high/low set point alarms. It is used to measure and display surface temperatures within the range of -50°C to 650°C (-58°F to 1202°F) and has an accuracy of approximately 1 to 1.5% (see Specifications for details). The IRT2 has a fast response time (0.15 sec) and is powered with a 9V battery and complies with Class II UK/EU laser safety standard EN60285.

Temperature range:	-50 to 650 °C (-58°F ~ 1202°F)
Distance to Spot ratio:	D:S = 12:1
Accuracy for targets assuming ambient operating temperature of 23 to 25 °C (73 to 77°F):	
	-50 ~ 20°C (-58°F ~ 68°F) ±2.5°C(4.5°F)
	20°C ~300°C (68°F ~572°F) ±1.0% ±1.0°C(1.8°F)
	300°C ~ 650°C (572°F ~ 1202°F) ±1.5%
Emissivity:	Digitally adjustable from 0.10 to 1.0
Power supply:	9V battery, NEDA 1604A or IEC 6LR61, or equivalent.

# SPECIFICATIONS

## KIT SPECIFICATIONS

Size: 430mm x 345mm x 130mm (16.9" x 13.6" x 5.1")

Weight:

3.72kg (8.2lbs)

Power: 2 x 9 volt PP3 Batteries (included)

