

Tramex Moisture Encounter MEX5



The Tramex MEX5 Moisture Encounter is a digital Dual-Depth, non-destructive moisture and humidity meter, ideal for surveying moisture and humidity conditions in building structures.

The Tramex MEX5 Moisture Encounter measures moisture content in wood and drywall and provides comparative readings in various building materials such as roofing, plaster, tile and masonry.

It also features a built-in hygrometer for ambient conditions and psychrometric values, an Infrared Surface Thermometer and incorporates optional external in-situ RH probes for in-situ equilibrium RH readings, as well as Pin probes for wood, drywall, and WME readings.

These individual and collective features make the Tramex MEX5 Moisture Encounter an essential and indispensable asset for professionals in the building moisture inspection and restoration industry.

Features

- **NDT - Non destructive testing**
 - %MC dual depth measurement of wood.
 - Comparative dual depth of drywall, roofing, plaster, tile and masonry
 - Dual depth comparative readings of surface and core moisture for eliminating influence of substrate on moisture testing of coverings
 - LED indicator Low/Med/High for all NDT scales
 - Built-in Hygrometer readings on permanent display
 - Built-in Surface Temperature Infrared Thermometer
 - Adjustable Specific Gravity for NDT wood readings
- **Built-in hygrometer and Infrared Surface Thermometer**
 - Psychrometric evaluations of Ambient RH, Temp, Dew Point Temp, Humidity Ratio (GPP, g/kg)
 - Surface Temperature
 - Delta Temperature value
 - Enthalpy readings
 - Emissivity adjustment for surface temperature correction
- **Pin Probe (optional plug-in probe)**
 - Variety of external pin probes and electrodes can be used
 - %MC wood, pre-set international standards / access to various preset wood species
 - WME readings
 - Drywall %MC
 - Auto calibration check
 - Temperature correction of %MC in wood
 - EMC Expected Moisture Content indication based on ambient conditions and wood selection



Technical Specifications

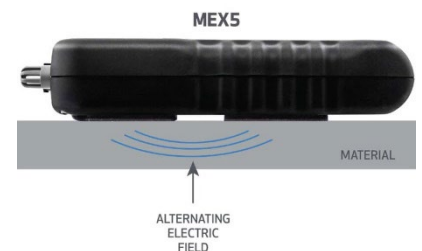
Part Number	Description
Size	180mm x 85mm x 40mm
Weight	290g
Construction	ABS Body
Power	2 x AALR6 Alkaline
Display	Digital 58mm x 35mm
Depth of penetration	Shallow signal: up to 9mm Deep signal: up to 30mm
Measuring range of MEX5 moisture meter:	
NDT Moisture content for Wood	0 → 30% MC
NDT Comparative for Building Materials	0 → 100
Pin % MC Wood	6 → approx 50% MC
Pin % MC Drywall	0 → 8.5% MC
Relative Humidity	0 → 99%
(with optional Hygro-i2 ® probe)	Humidity accuracy: 0% → 99%RH +/- 2% @ 25°C

Packing List

Tramex MEX5 Moisture Encounter
Free App available for Android and iOS
Operating Instructions

How it works

The Moisture Encounter MEX5 detects and evaluates moisture conditions within various building materials by non-destructively measuring the electrical impedance. A low frequency electronic signal is transmitted into the material via the electrodes in the base of the instrument. The strength of this signal varies in proportion to the amount of moisture in the material under test. The Moisture Encounter MEX5 determines the strength of the current and converts this to a moisture content value, displaying it on a large clear digital display



Psychrometric Mode

The Moisture Encounter MEX5 uses its built-in hygrometer to measure the ambient relative humidity (RH), ambient temperature (Ta), dew point temperature (Td) and humidity ratio (HR GPP, g/kg) of the environment. These measurements are shown at the bottom of the screen for each mode or scale being used. In Psychrometric mode the DELTA temperature value (difference between ambient and dew point temperature), the Surface temperature, and Enthalpy value (heat content in the air) can also be viewed. Plug-in in-situ equilibrium RH probes are available for psychrometric values within building materials such as concrete, wall and floor cavities and insulation.

Wood Pin-Probe Mode

By plugging in the optional handheld or hammer probes, the Moisture Encounter MEX5 becomes a resistance type meter and measures the percentage moisture content (%MC) of wood. International wood standards or preprogrammed wood species can be selected, and wood temperature correction can be automatically calculated. Pin Probe mode can also be used for Drywall %MC and WME (Wood Moisture Equivalent) readings for other materials.



ENTHALPY



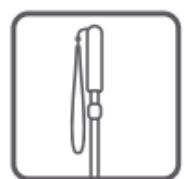
COMPARATIVE
READING RANGE



IN SITU
RH, T, DP, gr/lb



ACCOMPANYING
APP



EXTENSION HANDLE
(optional)