



# MOISTURE ENCOUNTER MEX5










- MEX5 -

## QUICK START GUIDE

## OPERATION

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- Press  to power ON/OFF.
- Menu: Press  to access the Menu,  and  to scroll,  to select.
- Test modes are selected in the Menu:
  - Non Destructive Test (NDT) mode
  - Pin Probe mode
  - Psychrometrics/Hygrometer mode
  - Settings (C°/F° pref, Buzzer on/off, Advanced Features)
  - Language
- Audio Buzzer (On/off in Settings) sounds when the meter indicates high NDT readings.
- Low/Medium/High LEDs indicate low, medium and high moisture values.
- Hold  freezes reading to facilitate ease of recording readings. When the Moisture Encounter MEX5 is in HOLD mode, 'H' is visible on the top left of the display.
- Press  for Bluetooth® connectivity to your Tramex Meters App.
- The built-in Hygrometer provides Temperature, Relative Humidity, Dew Point and Humidity Ratio (GPP, g/kg) readings shown along the foot of the display.
- Infrared surface thermometer is located on the base of the meter.
- Pin probe and In-situ RH probe (optional) connector is located on the top of the meter.
- Auto power-off activates with a buzzer alert after five minutes if no button is pressed or if no change in meter reading is detected.

## NON DESTRUCTIVE MODE

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- **Method:** Place your MEX5 directly on the material being tested ensuring the base electrodes are fully in contact with the material for instant readings on the digital screen. The Low/Med/High LEDs help indicate low, medium and high moisture values.
- **Wood-Timber scale:** Wood-Timber scale reading measurements are in percentage moisture content (%MC). Specific Gravity SG adjustment can be turned on/off in Settings/Advanced Features for Wood and Shallow Depth wood measurements
- **Shallow Depth scale:** Shallow Depth scale reading measurements are in percentage moisture content (%MC) when testing wood. For other materials, the Shallow Depth scale is for comparative readings and can be considered as NDT WME readings (Non-Destructive Test Wood Moisture Equivalent).
- **Comparative/relative, REL scales:** The Drywall-Roofing, Plaster-Tile and Masonry scales provide comparative readings from 0 to 99.

## PIN PROBE MODE

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- When used with the optional plug-in Pin probe, the MEX5 measures the percentage moisture content (%MC) of wood using pre-set International wood standards or wood species. Pin Probe mode can also be used for Drywall %MC and WME (Wood Moisture Equivalent) readings for other materials.

## PIN PROBE MODE

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- This mode is activated automatically by plugging one of the optional Pin Probe Electrodes into the socket at the top of the instrument.
- **Wood %MC measurements:** range from approx. 6.5% to approx. 50%MC.  
Low/Medium/High LEDs: Green 0 -13.9% / Yellow 14 - 17.9% / Red 18 - 50 %.  
In the Pin Probe menu choose from:
  - **Wood Standards scales:** Choose the international pin probe wood standard used in your region. e.g. Douglas Fir for the US.
  - **Wood Species scales:** Select a specific wood species for more precise measurements based on these woods' density, or SG specific gravity. In Settings/Advanced Features, turn on/off the Pin Temperature Correction and EMC Expected Moisture Content features.
  - **WME scale:** The WME Wood Moisture Equivalent scale is used from non-wood products on a relative scale of 0 - 99 (not a percentage).  
Low/Medium/High LEDs: Green 0 -13.9 / Yellow 14 - 17.9 / Red 18 - 99.
  - **Drywall scale:** Use the drywall scale for %MC Moisture Content measurements in drywall and gypsum board on a scale of 0-8.5%. Low/Medium/High LEDs: Green 0.5 / Yellow 0.6 - 0.7 / Red 0.8 - 8.5 %.

## PSYCHROMETRICS MODE

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- **Delta Temperature:** View Delta T, the difference between surface and dew point temperature, alongside the ambient condition measurements from the built-in hygrometer.
- **Surface Temperature:** View the T<sub>s</sub> surface temperature and adjust the  $\epsilon$  Emissivity (standard is 0.94) alongside the ambient condition measurements from the built-in hygrometer.
- **Thermal Hygrometer:** View the ambient temperature, RH, dew point and humidity ratio, as well as surface temperature and enthalpy values on one screen.



## IN-SITU RELATIVE HUMIDITY PROBE MODE

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- When used with an optional plug-in relative humidity probe, the MEX5 can measure the temperature, RH, dew point and humidity ratio (GPP, g/kg) conditions within building materials.
- This mode is activated automatically by plugging one of the optional RH probes into the socket at the top of the instrument.

## ADVANCED FEATURES

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- In Settings/Advanced features, turn on/off the following advanced options:
- **Baseline Ref:** In NDT mode, place the MEX5 on a known dry area and record the reading as a baseline reading by pressing  and . Subsequent NDT readings will be compared to that baseline reading and shown on the screen.

- Other Advanced Features include wood SG Specific Gravity adjustment and Surface temperature in NDT mode; and Pin temperature correction and EMC expected moisture content for wood in Pin Probe mode.

## CALIBRATION & WARRANTY

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- Annual calibrations are recommended. A Calibration Check Box for the MEX5 can be purchased for more regular checks.
- The pin probe calibration can be automatically checked in the Pin Probe menu.
- Calibration Checks for the hygrometer and RH probes can be purchased for more regular checks.

## USER GUIDE ONLINE

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- Please use the following link or QR code to access the complete User Guide online:

<https://l.ead.me/beG8Va>



Free App Available for Mobile and Tablet:



LI-MEX5QSG



[www.tramexmeters.com](http://www.tramexmeters.com)