

ENGLISH

ET140

INSTRUCTION MANUAL

Pinless Moisture Meter

- **PINLESS, NON-DESTRUCTIVE MOISTURE METER**
- **DETECT & MEASURE HIDDEN MOISTURE**
- **EASY-TO-SELECT MATERIALS:**
 - DRYWALL
 - HARDWOOD
 - SOFTWOOD
 - MASONRY



GENERAL SPECIFICATIONS

Klein Tools ET140 is designed to non-invasively detect moisture based on a material's capacitance. The mode selection is setup to maximize moisture readings for up to 3/4" of the depth of the surface of drywall, cement board, hardwood, and softwood.

- **Moisture Detection Range:**
 - Hardwood:** 0 to 35%
 - Softwood:** 0 to 55%
 - Drywall & Masonry:** 0 to 100% Relative
- **Resolution:** 0.1%
- **Accuracy: Wood:** $\pm 4\%$
 - Drywall & Masonry:** Relative readings
- **Inductive Sensor Size:** 1.25" x 2" (32 mm x 51 mm)
- **Sensing Depth:** 3/4" (19 mm)
- **Operating Altitude:** 6562 ft. (2000 m)
- **Relative Humidity:** <90% non-condensing
- **Operating Temp:** 50° to 104°F (10° to 40°C)
- **Storage Temp:** -4° to 122°F (-20° to 50°C)
- **Dimensions:** 6" x 2.5" x 1" (152 x 64 x 25 mm)
- **Weight:** 7 oz. (200 g) including batteries
- **Certifications:** CE
- **Batteries:** 1 x 9V (included)
- **Drop Protection:** 6.6 ft. (2m)








Specifications subject to change.

⚠ WARNINGS

To ensure safe operation and service of the meter, follow these instructions.

- Read the instructions to ensure safe operation.
- The meter is NOT insulated. Avoid contact with areas where energized conductive elements may be present.
- Always wear approved eye protection.

SYMBOLS ON METER

	Warning or Caution		Risk of electrical shock
	Wear approved eye protection		Read instructions
	WEEE - Dispose of properly		Battery Polarity
	Conformité Européenne: Conforms with European Economic Area directives		

FEATURE DETAILS



METER FEATURES

1. LCD Display
2. Bar Graph
3. MODE Button
4. Power On/Off Button
5. HOLD Button
6. Sensor
7. Battery Cover

LCD FEATURES

- A. Moisture Measurement (%)
- B. Modes
- C. Low Battery Indicator
- D. HOLD Indicator
- E. Auto-Power Off Icon

NOTE: There are no user-serviceable parts inside.

FUNCTION BUTTONS

POWER ON/OFF BUTTON ④

Press the Power On/Off Button to turn the meter on or off. Press and hold the Power On/Off Button for 2 seconds to turn the meter off.

NOTE: To conserve battery life, the meter will automatically power off after 10 minutes of inactivity.

MODE BUTTON ③

Repeated presses of the MODE button will toggle through the available material types: Drywall, Masonry, Hardwood, Softwood, in that order. Select the desired material prior to testing.

HOLD BUTTON ⑤

Press the HOLD button to lock the current reading. The reading will remain on the display until the HOLD button is pressed again, or until the meter automatically powers off.

OPERATING INSTRUCTIONS

1. Power on the meter ④.
2. Press the MODE button ③ until the desired material type appears on the display.
3. Scan the material by pressing the sensor ⑥ against the material to be tested. To ensure the best accuracy, press the back of the meter against a flat area of the material. The material should be at least 3/4" (19 mm) thick, which is the depth of the sensor penetration. If not, consider stacking the material to be measured. The display will show the percentage of moisture numerically ①, and segments of the Bar Graph ② will illuminate as a visual reference of the level of moisture present in the material per the chart below.

NOTE: "OL" will appear on the display if the moisture content detected lies outside the meter's measurement range.


BAR GRAPH MOISTURE INDICATORS

MATERIAL	GREEN LEDs	YELLOW LEDs	RED LEDs
DRYWALL	0 to 40%	40 to 70%	70% +
MASONRY	0 to 36%	36 to 63%	63% +
HARDWOOD	0 to 14%	14 to 24.5%	24.5% +
SOFTWOOD	0 to 21%	21 to 39%	39% +


MAINTENANCE

BATTERY REPLACEMENT

When the Low Battery indicator  is displayed on the LCD, the batteries must be replaced.

1. Loosen screw to remove battery door .
2. Remove and recycle exhausted 9V battery.
3. Install new battery.
4. Replace battery door and tighten screw.



 **To avoid risk of electric shock, do not operate meter while battery door is removed.**

CLEANING

Be sure meter is turned off and wipe with a clean, dry lint-free cloth. **Do not use abrasive cleaners or solvents.**

STORAGE

Remove the batteries when meter is not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the meter to return to normal operating conditions before using.

DISPOSAL / RECYCLE



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations. Please see www.epa.gov or www.ecycle.org for additional information.