

Concrete Moisture Tester
Model HI-540E

*Touch. Beep. Done –
Next-Level Convenience.*



Concrete Moisture Tester Model HI-540E

The HI-540E delivers high-precision moisture analysis with a simple contact-point sensor on the bottom of the unit. Designed for maximum efficiency, it features an auto-hold function, integrated data logging, and automated statistical calculations. The HI-540E provides on-site operators with rapid results while giving supervisors the verifiable data they need.

Beyond standard comparative testing (D-Mode), the device offers a surface-only S-Mode and a dual D/S Mode for real-time numerical comparisons. With a user-calibration feature for custom materials, the HI-540E is a versatile solution for a wide range of industrial applications.

• Auto-hold function

When the measured value stabilizes, it is automatically held. The displayed value remains even after removing your hand, making one-handed operation and photographing easy. It eliminates the need to manually hold the measurement while checking the value.

• Data storage / viewing / statistical calculation

The tester allows measurement data to be stored and reviewed directly on the tester itself, and also performs statistical processing (MAX, MIN, AVG, and SD). This enables immediate trend analysis and quality checks on site.

• D/S Modes

Function to display values correlated with moisture content

D Mode: Measures deep layers (Numeric value: 0-1999)

S Mode: Measures shallow layers (Numeric value: 0-1100)

D/S Mode: Measures both modes simultaneously and visualizes the difference

• User calibration function

Even for materials not included as measurement targets, moisture values can be displayed by using the user calibration function.

* Selectable from D Mode, S Mode, and D/S Mode.

Specifications

Measurement method	High frequency capacitance (20 MHz)
Application & measurement range	Concrete: 0 to 8% Mortar: 0 to 15% ALC: 0 to 100% Artificial lightweight aggregate concrete (ALA concrete): 0 to 23% Gypsum board: 0 to 50% Calcium silicate board: 0 to 15% Concrete (HI-520): 0 to 12% D mode: 0 to 1999 S mode: 0 to 1100
Functions	Temperature correction, backlight, hold/auto-hold, upper limit alarm, user calibrations
Measurement accuracy	±0.5% (Concrete and mortar)
Display	Digital (LCD)
Power supply	9 V alkaline battery (006P) ×1
Power consumption	350 mW
Dimensions and weight	72(W) x 146(D) x 118(H) mm, approx. 0.39 kg
Accessories	9 V alkaline battery (006P) ×1, carrying pouch, operating manual
Options	Data Logger Software HDL-02





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VIDEO&DETAILS





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Management system enhancement department of the Japanese Standards Association (JSA) registers the Quality Management System of the above organization, which conforms to JIS Q 9001, ISO 9001. The scope of the registration: Design, development, production management, calibration and repair of moisture testers, NIR composition analyzers, grain inspectors and coating thickness testers.

Contact