

NON-NUCLEAR SOIL ELECTRICAL DENSITY GAUGE, TOUCH SCREEN

STANDARDS: ASTM D 7830

The Electrical Density Gauge (EDG) is a nuclear-free alternative for determining the moisture and density of compacted soils used in road beds and foundations.

The EDG is a portable, battery-powered instrument capable of being used anywhere without the concerns and regulations associated with nuclear safety.

Easy-to-use, the EDG can be used as a construction aid to monitor day-to-day compaction operations by providing performance and measurement results highly comparable to those achieved with traditional methods, including the nuclear gauge and/ or a sand-cone and oven moisture test combination.

- Full color graphics driven user interface, touch screen operation.
- New Status Bar feature, displays GPS status, data save status, available battery voltage, low battery status and date and time.
- New data management feature, quickly Access, download, or delete your Project data.
- Ability to download files from the device via USB drive.
- Fast, reliable, accurate Material density and compaction test, and repeatable readings in real time, user friendly, cost effective.
- No other method of calibration is required, and on-site testing can be performed directly. You can read the data accurately in three seconds, with higher precision and better stability.
- Non-nuclear means no badges, licenses or storage and transport concerns.



HR-S0935

OPERATIONAL FEATURES:

Status Bar: Displays GPS status, battery voltage, low battery and date and time.

Project Details: Stores Up to 10 projects with details.

Mix Details: Stores up to 20 mixes, details include (MTD, Mix Name, Stone Size, Depth, Offset, Operator Name)

Data Logging: When enabled, stores all measurements taken in single or average modes. (Status Bar Icon)

Reports: Easily download data to be imported into Excel.

GPS Control: When activated will display latitude and longitude positions, number of satellites the gauge is connected to as well as the UTC date and time, also available in UTM format. GPS information will store with each measurement when Data Save and GPS feature is enabled. (Status Bar Icon)

Update Software: One touch upload of new software using a USB memory stick.

Data Management: Quickly access, download or delete your Project data.

Set Time & Date: Quick time and date setup, MM/DD/YY and DD/MM/YY formats

Units: Interchangeable settings for Density (kg/m³, lb/ft³), Temp (°C, °F), Depth (in, mm) and Stone size (in, mm).)

Enhanced customer support: Diagnostic screen to aid in factory Support

User Programmable Target Density: Used for calculating % compaction

OPERATIONAL SPECIFICATIONS:

MODES:

Single: Reading time less than five (5) seconds. Stores Data.

Average: Averages five (5) readings and stores data including location, date and time. Stores thousands of records.

Continuous: Instantaneous density readings.

FUNCTIONS:

Wet & Dry Density, % Compaction, % Moisture

SOIL SPECIFICATIONS:

Designed to operate with standard soils used in civil construction projects.

Requires inputs from standard

- Standard Test Methods for Liquid Limit,
- Plastic Limit, and Plasticity Index of Soils (ASTM D4318)
- Particle Size Distribution (ASTM D422)
- Proctor Test (ASTM D698 and D1557)

Operating Temperature: -20 °C to 40°C

MEASUREMENT SPECIFICATIONS:

Sensing Area: 11 in. (27.9 cm) diameter base allows optimum measurement on fine and coarse material types.

Measurement Depth: 110 mm

Measurement Display: Density, % Compaction, Surface Temperature, Mix Name and Project Name

ELECTRICAL SPECIFICATIONS:

Microprocessor Controlled

Battery: 2,5 Amp-hr NiMH, 12 V

Battery Time: 4 hours

Battery Charger: 12 V Universal AC Charge

Computer Ports: 1 USB Port

Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)
HR-S0935	Non-Nuclear Soil Electrical Density Gauge, Touch Screen, ASTM D 7830	49x39x22	9