UTEST
MATERIAL TESTING EQUIPMENT

SOIL

Compacted Road Base and Subbase Soils

NON-NUCLEAR SOIL DENSITY GAUGE

Product Code

UTS -1060 Non-Nuclear Soil Density Gauge

Non-Nuclear Soil Density Gauge is used for detecting density of Soil specimens with non nuclear type. UTS-1280 is fully equipped with a touch screen and user friendly graphical menu interface, running Microsoft Windows silently in the backround for flowless operation, easy software are upgrades and enchanced user support.

The instruments general specifications are;

- Full colour graphics driven interface, 480 x 640 VGA touch screen display with LED backlight for easy visibility.
- Displays GPS status, available battery voltage, low battery and date/time,
- Rugged case design made from aluminum, powder-coated gloss black with orange reflective vinyl graphics increasing driver awareness to road workers at night
- Data Management Feature, quickly access, can be downloaded and deleted project data,
- Required files can be downloaded to UTS-1280 via. USB,
- Fast, reliable, accurate, and repeatable in real time, User Friendly, in-process, cost effective tool for any user,
- The most inpoftant point is; Non-Nuclear means no Badges or Lisances and no storage or transport concerns.

OPERATIONAL FEATURES

- Display: Full color graphics driven user interface, 480x640 VGA touch screen display with LED backlight for easy visibility in daylight or dark situations.
- Status Bar: Displays GPS status, Data Save status, battery voltage, low battery and date and time
- Project Details: Stores up to 20 projects with details,
- Material Details: Stores up to 20 materials, details include Material Name, Description, Max Dry Density, Opt. Moisture, Dry Density Offset, % Moisture Offset, % Greater than 3", % Greater than 3/4", % Gravel, % Sand, % Fines, PL, LL, Cu and Cc
- Data Logging: Ability to store all measurements
- 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 (kq/rn^3, lb/ft^3), Temp (°C, °F)
- Standardization: While gauge is still in the case, a quick one touch measurement will insure the gauge is still in proper working mode
- Calculator: Built in four function calculator
- Enhanced Customer Support: Diagnostic screen to aid in factory support
- User Programmable Target Density: Used for calculating % compaction

Operational Specification	
Measurement Mode	
• Average	Averages five (5) readings and stores data including location date and time. Stores thousands of records
• Continuous	Instantaneous density readings.
Function Mode	
• Wet & Dry Density, % Compaction, % Moisture	
Soil Specification	
• 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)
Mechanical Specification	
• Unit Weight	14.2 lbs (6.44kg)
• Unit Dimensions	11"x11"x12" High (27,9 cm x 27,9 cm x 30,4 cm) with handle extension 29" High (73,6 cm)
• Shipping Weight w/ Case	42,5 lbs (19,27 kg)
• Shipping Dimensions	24" x 19,5" x 14" (60,9 cm x 49,5 cm x 35,5 cm)
Measurement Specification	
• Sensing Area	11 in. (27.9cm) dia. base allows optimum measurement on fine and coarse material types
• Measurement Depth	Designed for use on a standard 12" (30cm) un-compacted layer of soil during or after compaction.
• Measurement Display	Dry Density, % Compaction, % Moisture, GPSData, Material Information and Project Name
Electrical Specification	
• Microprocessor Controlled	
• CE Mark	Complies with EN 61000-4-2, 61000-4-3, 61000-4-8
• Battery	14.0 Amp-hr NiMH, 7.2 V
• Recharge Time	4 hours
• Battery Charger	Self Contained CE & UL Certified Universal AC Charger, DC Charger
• Computer Ports	1 USB Port