

# sdg<sub>200</sub>

non-nuclear  
soil  
density gauge



- Full color graphics driven user interface, 480x640 VGA touch screen display with LED backlight for easy visibility
- New status bar feature, displays GPS status, battery voltage, low battery status and date and time
- Rugged new case design made from .090" 5052 aluminum, powder-coated gloss black with green reflective vinyl graphics increasing driver awareness to road workers at night
- New data management feature, quickly access, download or delete your project data
- Ability to upload and download files to the SDG 200 via USB drive
- Fast, reliable, accurate and repeatable readings in real time, user friendly, in-process, cost effective tool for any crew member
- Most important, Non-Nuclear means no badges, licenses or storage and transport concerns



# sdg<sub>200</sub>

## non-nuclear soil density gauge

### specs



YENSTRON®

益瀚儀器

#### OPERATIONAL SPECIFICATIONS:

##### **Measurement Mode:**

- **Average:** Averages five (5) readings and stores data including location, date and time. Stores infinite records.

##### **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 (-4°F to 104°F)

#### MECHANICAL SPECIFICATIONS:

- **Unit Weight:** 14.2lbs (6.44kg)
- **Unit Dimensions:** 11in x 11in x 12in (27.9cm x 27.9cm x 30.4cm) with handle extension 29in High (73.6cm)
- **Shipping Weight w/ Case:** 49lbs (22.22kg)
- **Shipping Dimensions:** 17.5in x 18.5in x 20in (44.45cm x 47cm x 50.8cm)

#### MEASUREMENT SPECIFICATIONS:

- **Sensing Area:** 11 in. (27.9mm) diameter 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, GPS Data, Material Information and Project Name
- **Accuracy:** Wet Density +/- 2%  
Water Content +/- 2%

#### ELECTRICAL SPECIFICATIONS:

- **Microprocessor Controlled**
- **CE Mark:** Complies with EN61000-4-2, 61000-4-3, 61000-4-8
- **Battery:** 14.0 Amp-hr NiMH, 7.2volt
- **Recharge Time:** 4 hours
- **Battery Charger:** Self Contained CE & UL Certified Universal AC Charger, DC Charger
- **Computer Ports:** 1 USB Port

#### 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, 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** 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/m<sup>3</sup>, lb/ft<sup>3</sup>), 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
- **User Changeable Batteries:** easily change batteries in the field

#### FUTURE OPTIONAL ACCESSORIES:

- Stand Alone Charger, Extra Battery Packs & Printer

#### WARRANTY:

- **Standard:** 12 month
- **Optional Extended Warranty:** Customer CarePlan available, contact TransTech or your local authorized distributor

SDG 200  
Complies with



D7830



Simple Solutions to Not-So-Simple Problems

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