STANLAY™

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Electrical Density Gauge

Electrical density gauge (also referred to as EDG) is utilised for measurement of field compaction of soil. The instrument provides an output and graph based on soil model for the site of compaction %, moisture %, wet & dry density.

The EDG is a nuclear free alternative that is utilised as an aid for field compaction control and measurement at road beds and foundation construction sites .

Why EDG develops Soil Model as step1

The EDG develops soil model based on electrical resistivity measurements at site and inputs received from traditional methods such as Nuclear Gauge, Sand Cone, Volu-vessel or Drive Tube; soil model developed is then used as a calibration reference during the testing procedure. The electrical measurements performed establishes a curve of the measured dielectric properties for different densities and moisture combinations of the actual soil to be tested or a similar material.

Features :

- Computerised instrument that is menu driven for guiding on step by step measurement.
- EDG is a quick NDT method that is a non nuclear method replacing nuclear density gauge which requires elaborate procedures to be utilised.
- EDG is also relatively quicker than Nuclear density gauges.
- Instrument provides indirect measurement of field compaction.
- Soil model can be developed easily at site.
- Reference reading from traditional method such as cone replacement or from nuclear gauge is sufficient for generating soil model.
- GPS data can be integrated into test results
- In-situ temperature measurement is recorded

Technical specifications :

Measures :	Wet Density in g/cm³ Dry Density in g/cm³ Moisture % Compaction
Display :	Touchscreen color display
Conforming to :	ASTM D7698
Data Storage:	Upto 2,000 projects of 2,000 tests
Supply Includes	EDG instrument, battery charger, GPS, Dart template, 6" Darts - 4 Nos, Hammer carry Case

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