

Tuesday 13 February 2007

## **EDG from Humboldt**

The Electrical Density Gauge (EDG) from **Humboldt Manufacturing** is a nuclear-free alternative for nuclear gauges in determining the physical properties of compacted soils used in road beds and foundations.

A portable, battery-powered instrument, it is capable of being used anywhere in the world without the problems associated with nuclear safety.

"For the contractor the advantages of using the EDG is that it does not require a highly trained or licensed technician; is easy to learn, which enables anyone to be trained, and is so simple to use that measurements are fast and can be done at greater intervals for a more thorough evaluation," says Humboldt.

"The unit measures and displays the wet and dry density, gravimetric moisture content and percent compaction, and it 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 nuclear gauge, sand-cone and oven drying methods."

The EDG's accuracy is achieved using point-to-point radio frequency, measuring directly between electrodes driven into the soil, ensuring positive measurements through the soil at full depth of electrodes. There is no need to make sure the soil is homogeneous or to rely on radio frequency 'waves' to penetrate soil materials from the surface.

Humboldt

**[www.humboldtmfg.com](http://www.humboldtmfg.com)**

---

Published in *2007 Review and Buyers Guide* (MATERIALS TESTING EQUIPMENT)

Related links

**[Humboldt Manufacturing](#)**