

Troxler *EG*Gauge Combo Model 4540

Asphalt and Soil Nuclear Density Gauge



License Exempt, Troxler Accurate

From the inventor of the nuclear density gauge comes the **ONLY** combination nuclear gauge that is License Exempt!

License Exempt

- Less hassle and saves money.
- **Eliminates:** RML, Reciprocity, TLD Badges, Storage Requirements, Transportation Documents, Double Locks, Leak Tests, Record Keeping, Emergency Procedures, Expensive Shipping, Radiation Safety Training, and Military Base Restrictions
- Going with license Exempt equipment also eliminates the risk of a surprise inspection by the state regulatory agency or NRC.

Combination Design - Backscatter and Direct Transmission

- **Asphalt** using backscatter, compliant with ASTM D2950 and AASHTO T355.
 - ASTM D2950: Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods
 - AASHTO T355: In-Place Density of Asphalt Mixtures by Nuclear Methods
- **Soil** using direct transmission and backscatter, compliant with ASTM D8167.
 - ASTM D8167: Standard Test Method for In-Place Bulk Density of Soil and Soil-Aggregate by a Low-Activity Nuclear Method (Shallow Depth)

Accurate

- Lab tested to hold similar accuracy as licensed nuclear gauges
- Extremely accurate and more reliable than non-nuclear devices
- Saves time due to not needing an offset/correlation

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Measurement Specifications	
Reading Depths	Backscatter (~top 3.5" measured) 2-12" Direct Transmission
Reading Times	BS: 30sec, 1min, 2min, 3min, 4min DT: 1min, 2min, 3min, 4min
Compliance	ASTM D2950 and D8167, and AASHTO T355
Source Activity	90microCuries
Moisture Measurement	Bluetooth connected capacitance probe Manual entry

Mechanical Specifications	
EGauge Size (H x L x W)	24.6" x 15.4" x 9.2" 625mm x 391mm x 234mm
Moisture Probe Size (H x L x W)	8.2" x 13.6" x 5.6" 208mm x 346mm x 142mm
Case Dimensions (H x L x W)	31.3" x 20.4" x 15.5" 795mm x 518mm x 393mm
Weight	33 lbs (14.97 kg)
Shipping Weight	83 lbs (38 kg)
Screen	Backlit 4x20 LCD

Electrical Specifications	
Main Power Source	NiMH rechargeable batteries
Backup Power Source	5 AA alkaline batteries
Charge Source	12 V DC, 2A

Features: Auto Depth
GPS
Remote Keypad
Data Storage - 1,000 readings
External Beeper

LED Charger Indicator
Bluetooth
USB Port
Serial Port

Model 6760 Moisture Probe
optional with each EGauge Combo.

Case

Features: Extendable Handle Wheels



	EGauge Combo	Non-Nuclear	Cores
Measures	Density	Relative Density	Density
Accuracy	Matches core and is industry standard	Correlations needed	Industry standard
Destructive	No	No	Yes
Reading Times	30 seconds - 2 minutes	2-10 seconds	Hours
Best Use	QA/QC	QC	QA
Limitations	None	Less accurate	Destructive and tested off sight

*Exempt in the United States as determined by the NRC.



Made in USA

3008 E. Cornwallis Road
Research Triangle Park, NC 27709
1-877-TROXLER (1-877-876-9537)
1-919-549-8661 (International)
www.troxlerlabs.com