Troxler Model 4640-B

Surface Thin Layer Density Gauge

Measures the Density of Thin Asphalt and Concrete Layers

The Troxler Model 4640-B measures the density of asphalt and concrete layers between one and four inches (two and a half and ten centimeters) without influence from the underlying material.

Fast and Accurate Results

In as little as one minute, the Model 4640-B measures and displays density results that are reliable and repeatable.

Eliminates the Need for Nomographs

Variations in the density or composition of the base material do not affect the test results. No field calculations are needed.

Operator-Selected Depth of Measurement

The thickness of the top layer is entered into the software by the operator. This allows the gauge to correctly calculate the top layer density without influence from the underlying material.

Meets ASTM and AASHTO Standards

The Model 4640-B meets or exceeds all applicable ASTM and AASHTO standards.

Widely Accepted in the Industry

Many departments of transportation depend on Troxler thin layer gauges for reliable, real-time compaction control of new pavement and asphalt overlays.

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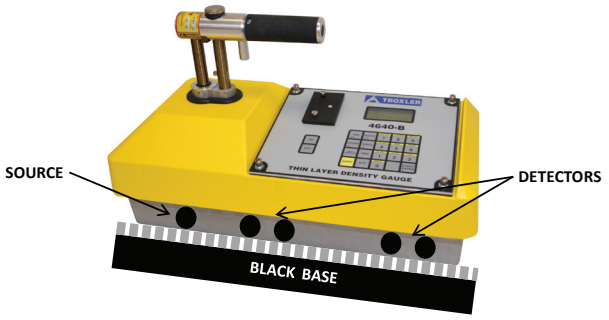
Special Functions

- Automatic standard count comparison and storage
- Data storage of 750 records for later viewing, printing, and/or downloading
- Determination of the count time for selected precision
- Field offsets of density and a special calibration function
- Calculator mode
- Diagnostics and self-test modes
- Simple data transfer to a portable device using the free Troxler App

Measurement Specifications				
	Time	**Thickness**	**kg/m³**	**pcf**
Gauge Precision	1 minute	1 in (2.5 cm)	±16	±1.0
		2 in (5.0 cm)	±10	±0.6
		2.5 in (6.3 cm)	±8	±0.5
	4 minutes	1 in (2.5 cm)	±8	±0.5
		2 in (5.0 cm)	±5	±0.3
		2.5 in (6.3 cm)	±4	±0.25
Depth of Measurement	1 to 4 in (25 to 100 mm)			

Mechanical Specifications	
Gauge Size (Excluding Handles) (L x W x H)	18.6 x 9.1 x 6.2 in (472 x 231 x 158 mm)
Gauge Height (Including Handles)	9.5 in (240 mm)
Weight	29.7 lb (13.5 kg)
Shipping Weight (Including Case)	90 lb (40.8 kg)

Electrical Specifications	
Stored Energy	30 W/h
Battery Recharge Time	14 to 16 hours
Battery Recharge	110/220 VAC 50 to 60 Hz or 12 to 14 VDC
Power Consumption	0.16 W/h
The battery packs are fully protected against overcharge and overdischarge and can operate using D alkaline batteries if necessary.	



Thin Layer Asphalt Density without Underlying Material Influence

Environmental Specifications		
Operating Temperature	Ambient	14°F to 158°F (-10°C to 70°C)
	Surface	350°F (175°C)
Storage Temperature	-70°F to 185°F (-55°C to 85°C)	

Radiological Specifications	
Gamma Source	0.30 GBq (8 mCi) ±10% Cs-137
Source Type	Sealed source, special form
Source Housing	Stainless steel, double encapsulated
Shielding	Tungsten, lead
Case	DOT 7A, Type A, Yellow II label, TI = 0.2

Made in USA

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