

PORTABLE CONCRETE AIR METER



Portable Concrete Air Meter - ToronCAM™ P

ToronCAM™ P is a lightweight, portable direct-reading concrete air meter designed for fast, reliable air content testing on active construction sites. As a precision-class air entrainment meter, it features a quick-cover clamping system, a built-in manual pump, and a compact structure that makes it one of the most site-friendly concrete air testers in its class. At approximately 10 kg, the ToronCAM™ P is easy to transport and position on busy jobsites without the need for additional equipment.

With a 7-liter capacity and an air content range of 0% to 100% — with precision accuracy within 5% of range at $\pm 0.1\%$ (1%–10%) and $\pm 0.2\%$ (6%–10%) — this air meter for concrete is built for high-frequency field use. Its design eliminates the need to plot curves: air content is read directly off the gauge in real time. The ToronCAM™ P also operates independently of atmospheric pressure changes, making it a dependable air meter concrete teams can count on regardless of site elevation or weather conditions.

APPLICATIONS

Portable Concrete Air Meter - ToronCAM™ P Applications

The ToronCAM™ P air meter for concrete is suited for frequent, fast testing across a range of construction applications:

- High-frequency jobsite QC: rapid air content checks during concrete placement with minimal test preparation time
- Ready-mix concrete delivery verification: fast field confirmation of air entrainment before concrete placement
- Pavement, flatwork, and slab-on-grade construction: portable concrete air tester for continuous placement monitoring
- Elevated or remote construction sites: atmospheric-pressure-independent air entrainment meter for consistent results at any elevation
- Bridge and infrastructure projects: reliable field-use instrument for freeze-thaw durable concrete verification
- Inspection and owner representative testing: lightweight, easy-to-use air meter concrete inspectors can deploy quickly



FEATURES

Portable Concrete Air Meter - ToronCAM™ P Key Features

The ToronCAM™ P portable concrete air tester is engineered for fast, accurate field testing with features that prioritize ease of use and consistency:

- Direct-reading design: air content percentage displayed immediately on the gauge, no curve plotting required
- Quick-cover clamping system: faster test setup compared to conventional bolt-down bowl assemblies
- Built-in manual pump: self-contained pressurization, no external air source needed
- Atmospheric pressure independence: delivers consistent readings regardless of site elevation or weather conditions
- Lightweight and compact: approximately 10 kg for easy transport and positioning on active jobsites
- 7-liter capacity: standard bowl volume compatible with ASTM and international test method sample sizes
- Wide measurement range of 0% to 100% with fine resolution in the 1% to 10% working range
- Accuracy within 5% of range: $\pm 0.1\%$ for 1%–10% range, $\pm 0.2\%$ for 6%–10% range
- Durable construction: designed for high-frequency use on construction sites

THEORY & METHOD

Theory and Method

The ToronCAM™ P uses the pressure method to measure air content in freshly mixed concrete. A sealed chamber is pressurized using the instrument's integrated manual pump, and the initial pressure is set before the equalization valve is opened. As the pressurized air compresses the entrained voids within the concrete sample, the resulting pressure drop is read directly on the gauge — no curves, no calculations, no delays.

A key design advantage of this concrete air tester is its independence from atmospheric pressure variation. Unlike some air meters for concrete that require atmospheric correction factors at different elevations, the ToronCAM™ P delivers consistent readings across varying site conditions. The quick-cover clamping system speeds up test setup, while the built-in manual pump gives operators complete control over pressurization without external equipment.

TECHNICAL SPECIFICATIONS

Portable Concrete Air Meter - ToronCAM™ P Technical Specifications

Parameter	Specification
Model	ToronCAM™ P
Bowl Capacity	7 liters (7,000 mL)
Air Content Range	0% - 100%
Accuracy (1%-10% range)	±0.1% (within 5% of range)
Accuracy (6%-10% range)	±0.2%
Pressurization Method	Built-in manual pump
Cover Clamping System	Quick-cover clamping
Atmospheric Pressure Sensitivity	Not affected by atmospheric pressure changes
Instrument Weight	Approximately 10 kg
Test Type	Direct-reading (pressure method)



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