

HIGH-PRECISION CONCRETE AIR METER



High-Precision Concrete Air Meter - ToronCAM™ HP

ToronCAM™ HP is a precision direct-reading concrete air meter that incorporates Sanyo technology sensing components from Japan for high-accuracy air content measurement in freshly mixed concrete. Designed for construction projects requiring concrete across the C15 to C80 strength range, this air entrainment meter delivers reliable readings in a rugged, field-ready package. Its durable alloy body, dustproof and waterproof pressure gauge, and all-copper valve assembly make it a dependable concrete air tester for both plant and jobsite use.

With a 7-liter bowl capacity, a measurement range of 1% to 10%, and an accuracy of $\pm 0.1\%$, the ToronCAM™ HP air meter for concrete is well suited for quality control teams who demand precision without sacrificing portability or durability. The explosion-proof, waterproof pressure gauge design adds an extra margin of safety for high-frequency use on active construction sites.

APPLICATIONS

High-Precision Concrete Air Meter - ToronCAM™ HP Applications

The ToronCAM™ HP concrete air meter is suited for a wide range of concrete construction and quality assurance applications:

- Ready-mix concrete plants: precision air entrainment meter checks across a broad concrete strength range (C15–C80)
- Structural concrete production: air content verification for high-strength and standard-strength concrete mixes
- Bridge and transportation infrastructure: durable concrete air tester for field use on demanding civil projects
- Commercial and industrial construction: high-frequency jobsite testing with a portable, rugged instrument
- Precast concrete manufacturing: consistent QC testing across production runs
- Independent testing laboratories: precision air meter for concrete used in ASTM-based compliance testing



FEATURES

High-Precision Concrete Air Meter – ToronCAM™ HP Key Features

The ToronCAM™ HP precision concrete air tester delivers a full feature set for accurate, high-frequency air content testing:

- Sanyo technology sensing components from Japan: high-precision, stable pressure measurement for superior accuracy
- Precision-class direct-reading instrument: immediate air content readout without charts or manual calculations
- Applicable concrete strength range of C15 to C80: broad mix design compatibility
- Measurement range of 1% to 10% with accuracy of $\pm 0.1\%$: suitable for tightly specified air-entrained mixes
- Maximum aggregate size compatibility of 40 mm: supports standard and gap-graded concrete mix designs
- 7-liter measuring bowl capacity: standard volume for fresh concrete testing per international protocols
- Dustproof, waterproof, and explosion-proof pressure gauge: built for demanding field conditions
- Durable main unit body of magnesium, aluminum, zinc, silicon, and copper alloy: corrosion-resistant and long-lasting

THEORY & METHOD

Theory and Method

The ToronCAM™ HP operates on the direct-reading pressure method for measuring entrained air in fresh concrete. The concrete sample is sealed within the 7-liter bowl, and a controlled initial air pressure is applied. When the equalizing valve is opened, the pressure drop caused by the compression of entrained air voids in the concrete sample is read directly on the gauge as a percentage of air content — providing immediate results without the need for charts or computation.

The Sanyo-technology pressure sensing system from Japan delivers high sensitivity and stability, making this air meter concrete testing instrument suitable for precision applications across the full C15 to C80 compressive strength spectrum.

The instrument's dustproof, waterproof, and explosion-proof gauge housing ensures consistent performance in challenging field environments where conventional gauges may be susceptible to contamination or damage.

TECHNICAL SPECIFICATIONS

High-Precision Concrete Air Meter - ToronCAM™ HP Technical Specifications

Parameter	Specification
Model	ToronCAM™ HP
Measuring Bowl Capacity	7 L (7,000 mL)
Measurement Range	1% - 10%
Accuracy	±0.1%
Maximum Aggregate Size	≤40 mm
Applicable Concrete Strength Range	C15 - C80
Pressure Gauge Type	Dustproof, waterproof, explosion-proof
Sensing Technology	Sanyo technology (Japan)
Main Unit Material	Durable alloy of magnesium, aluminum, zinc, silicon, and copper
Test Type	Direct-reading (pressure method)



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