

# **Meets ASTM C215, ASTM C666 Standards**

#### TEST:

- Concrete
- Stone & Rock
- Masonry
- Carbon & Graphite
- Ceramics
- Other Specimens

Designed for lab use, Olson's Resonance Test Gauge (RTG) connects to the customer's Windows device for longitudinal, flexural and torsional resonance testing of concrete, rock, asphalt and masonry (cylinders, beams and cores). Results can be exported to our Calculations Spreadsheet which automatically determines dynamic properties such as Young's modulus (E), shear modulus (G) and Poisson's ratio (v) (meets ASTM C215 standard for resonance testing of concrete for dynamic properties and ASTM C666 standard for freeze-thaw durability testing).



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**Accurate results in seconds!** 

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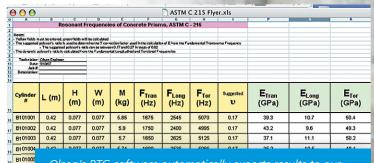
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#### **Specifications**

Sampling Rate	45455 samples/second
Number of Samples Acquired Per Test	1024 samples
Frequency Resolution	44.39 Hz
Nyquist Frequency	22727 Hz
ASTM C215 Minimum Required Frequency	20,000 Hz
Accelerometer Flat Frequency Response Measurement Range	20,000 Hz

### **Key Software Features**

- Olson's RTG software for data acquisition and analysis
- Real-time waveform display while testing
- Switch between English and Metric units
- Save results for later review
- Automatic frequency calculation
- I Full user selection of gain and units
- Automatic file naming feature
- The RTG-1 system must be used with a Windows 7-10 device running Olson Instruments' RTG software. The computer or tablet is supplied by the user.



Olson's RTG software automatically exports results to our Calculations Spreadsheet that determines Young's Modulus, Shear Modulus and Poisson's ratio.

## **Key Hardware Features**

- USB powered RTG device with built in phone plug and BNC connection
- Impact Source: 2 oz ballpeen hammer
- Receiver: 1 accelerometer, 10 mV/g
- Transducer mounting: Grease
- Includes sponge rubber mat

#### **Included Equipment & Software:**



- 1 2 oz. Spherical Head Hammer
- 2 Spatula for Adhesive Grease
- 3 RTG Device, Jump Drive with RTG Software
- 4 Adhesive Grease
- Accelerometer, Microdot BNC Cable, Mounting Block
- 6 Sponge Rubber Mat for Specimen Support

« Entire RTG system fits in this lightweight case

#### **About Olson Instruments**

Headquartered in Wheat Ridge, Colorado, USA, Olson Instruments specializes in *Nondestructive Evaluation* equipment for the civil engineering industry. We are an established manufacturer of sensors and data collection systems since 1993. Olson introduces the RTG-1 as the inexpensive solution for Concrete Resonance Testing (ASTM C215) and Freeze-Thaw Resistance Testing (ASTM C666).

Olson Engineering Inc. specializes in **Nondestructive Evaluation and Internal Condition Assessment of Civil Infrastructure** throughout the world as well as **Geophysical Services** for engineering purposes.

**To learn more visit:**OlsonInstruments.com
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