

## DATA SHEET

# Resonance Frequency Meter



58-E0035/C with concrete specimen

## General description

Used for determining the Longitudinal, Transverse (Flexural) and Torsional resonant frequency of concrete and natural stone samples. The resonant frequency permit the determination of the Dynamic Modulus of Elasticity and the Damping coefficient analysis frequently used, for instance, to determine the degradation due to freezing and thawing cycles.

The 58-E0035/D meter is provided with PC embedded board and colour LCD monitor with integrated 7" touch-screen.

User friendly test procedure with relevant displays.

Supplied complete with RES-Reader software which allows the management of data with a PC and the production of test reports.

## Main features

- LCD 7" Touch screen integrated monitor
- Integrated PC card
- Software utility for positioning of measuring and impact points
- Automatic measurement of resonance frequencies values
- Display of harmonic frequencies
- Storage of data on SD card
- RES - Reader software included

## Standards

- ASTM C666
- BS 1881:209
- NF P18-414
- UNI 9771
- ASTM C215
- EN 14146

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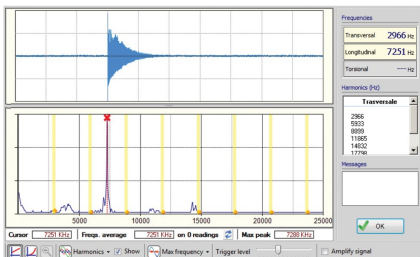
### Specifications

#### Acquisition

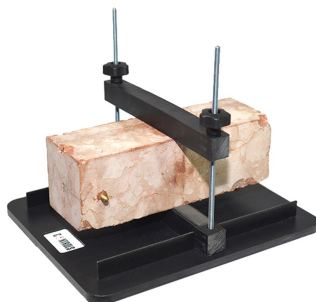
Max. sampling frequency: 100 kHz (Nyquist: 50 kHz)  
Frequency resolution: min. 12.2 Hz (0-50 kHz), max. 0.49 Hz (0-2kHz)  
Sample resolution 12 bit

#### General

Battery operated: Li-ion Battery pack, 11.1V - 14Ah (approx 6 hours autonomy)  
Working temperature: 0 to 60°C  
Minimum level of the trigger signal: 19 mV  
Case: Polypropylene, automatic pressure valve, IP67 protection degree  
Acquisition medium power consumption: 350 mA  
Dimensions (l x h x d): 225 x 270 x 107 mm  
Weight approx.: 2.6 kg



Example of display



Specimen supporting bench model 58-E0035/C1

### Products

#### 58-E0035/D

Resonance frequency meter. Suitable for longitudinal, torsional and flexural frequency of concrete and natural stone samples. 110-240V/50-60Hz/1Ph

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### Accessories and consumables

**58-E0035/D1**

Specimen supporting bench for resonance frequency meter. Compatible with prisms and cylinders.