

SECTION G — PHYSICS

G01 MEASURING; TESTING

G01H MEASUREMENT OF MECHANICAL VIBRATIONS OR ULTRASONIC, SONIC OR INFRASONIC WAVES [4]

Note(s)

1. This subclass covers the combination of generation and measurement of mechanical vibrations.
2. Attention is drawn to the Notes following the title of class G01.

Subclass index

PRINCIPLE OF THE MEASURING

By direct conduction; by detection in a fluid; by sensitivity to radiation; by detection of changes in electric or magnetic properties.....1/00, 3/00, 9/00, 11/00

SPECIAL CHARACTERISTICS MEASURED

Propagation velocity; reverberation time; resonant frequency; mechanical or acoustic impedance.....5/00, 7/00, 13/00, 15/00

1/00 Measuring vibrations in solids by using direct conduction to the detector (G01H 9/00, G01H 11/00 take precedence)

- 1/04 • of vibrations which are transverse to direction of propagation
- 1/06 • • Frequency
- 1/08 • • Amplitude
- 1/10 • of torsional vibrations
- 1/12 • of longitudinal or not specified vibrations [4]
- 1/14 • • Frequency [4]
- 1/16 • • Amplitude [4]

3/00 Measuring vibrations by using a detector in a fluid (G01H 7/00, G01H 9/00, G01H 11/00 take precedence)

- 3/04 • Frequency
- 3/06 • • by electric means
- 3/08 • • Analysing frequencies present in complex vibrations, e.g. comparing harmonics present
- 3/10 • Amplitude; Power
- 3/12 • • by electric means (G01H 3/14 takes precedence) [2]
- 3/14 • • Measuring mean amplitude; Measuring mean power; Measuring time integral of power [2]

5/00 Measuring propagation velocity of ultrasonic, sonic or infrasonic waves

7/00 Measuring reverberation time

9/00 Measuring mechanical vibrations or ultrasonic, sonic or infrasonic waves by using radiation-sensitive means, e.g. optical means

11/00 Measuring mechanical vibrations or ultrasonic, sonic or infrasonic waves by detecting changes in electric or magnetic properties

- 11/02 • by magnetic means, e.g. reluctance [4]
- 11/04 • • using magnetostrictive devices [4]
- 11/06 • by electric means [4]
- 11/08 • • using piezo-electric devices [4]

13/00 Measuring resonant frequency

15/00 Measuring mechanical or acoustic impedance [3]

17/00 Measuring mechanical vibrations or ultrasonic, sonic or infrasonic waves, not provided for in the other groups of this subclass [4]