

## 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

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<b>1/00</b>	<b>Measuring vibrations in solids by using direct conduction to the detector</b> (G01H 9/00, G01H 11/00 take precedence) <b>[1, 2006.01]</b>	<b>5/00</b>	<b>Measuring propagation velocity of ultrasonic, sonic or infrasonic waves</b> <b>[1, 2006.01]</b>
1/04	• of vibrations which are transverse to direction of propagation <b>[1, 2006.01]</b>	<b>7/00</b>	<b>Measuring reverberation time</b> <b>[1, 2006.01]</b>
1/06	• • Frequency <b>[1, 2006.01]</b>	<b>9/00</b>	<b>Measuring mechanical vibrations or ultrasonic, sonic or infrasonic waves by using radiation-sensitive means, e.g. optical means</b> <b>[1, 2006.01]</b>
1/08	• • Amplitude <b>[1, 2006.01]</b>		
1/10	• of torsional vibrations <b>[1, 2006.01]</b>	<b>11/00</b>	<b>Measuring mechanical vibrations or ultrasonic, sonic or infrasonic waves by detecting changes in electric or magnetic properties</b> <b>[1, 2006.01]</b>
1/12	• of longitudinal or not specified vibrations <b>[4, 2006.01]</b>	11/02	• by magnetic means, e.g. reluctance <b>[4, 2006.01]</b>
1/14	• • Frequency <b>[4, 2006.01]</b>	11/04	• • using magnetostrictive devices <b>[4, 2006.01]</b>
1/16	• • Amplitude <b>[4, 2006.01]</b>	11/06	• by electric means <b>[4, 2006.01]</b>
		11/08	• • using piezo-electric devices <b>[4, 2006.01]</b>
<b>3/00</b>	<b>Measuring vibrations by using a detector in a fluid</b> (G01H 7/00, G01H 9/00, G01H 11/00 take precedence) <b>[1, 2006.01]</b>	<b>13/00</b>	<b>Measuring resonant frequency</b> <b>[1, 2006.01]</b>
3/04	• Frequency <b>[1, 2006.01]</b>	<b>15/00</b>	<b>Measuring mechanical or acoustic impedance</b> <b>[3, 2006.01]</b>
3/06	• • by electric means <b>[1, 2006.01]</b>		
3/08	• • Analysing frequencies present in complex vibrations, e.g. comparing harmonics present <b>[1, 2006.01]</b>	<b>17/00</b>	<b>Measuring mechanical vibrations or ultrasonic, sonic or infrasonic waves, not provided for in the other groups of this subclass</b> <b>[4, 2006.01]</b>
3/10	• Amplitude; Power <b>[1, 2006.01]</b>		
3/12	• • by electric means (G01H 3/14 takes precedence) <b>[1, 2, 2006.01]</b>		
3/14	• • Measuring mean amplitude; Measuring mean power; Measuring time integral of power <b>[2, 2006.01]</b>		