

# Technical Note

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Range and resolution C12, V12, A1

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### Measurement range and resolution in different standards for c12

Max amplitude	Resolution in table presentation	Resolution / ADC-bit	Lowest trigger level (peak)	Noise level
250 mm/s	0.05 mm/s	0.01 mm/s	0.4 mm/s	< 0.05 mm/s
25 mm/s	0.005 mm/s	1 µm/s	0.04 mm/s	<0.005 mm/s

### Measurement range and resolution in different standards for v12

Max amplitude	Resolution in table presentation	Resolution / ADC-bit	Lowest trigger level (peak)	Noise level
250 mm/s	0.05 mm/s	0.01 mm/s	0.4 mm/s	< 0.02 mm/s
25 mm/s	0.005 mm/s	1 µm/s	0.04 mm/s	<0.002 mm/s
5000 µm/s	1 µm/s	0.2 µm/s	10 µm/s	<0.4 µm/s

### Measurement range and resolution in different standards for a10 + accelerometer

Max amplitude	Resolution in table presentation	Resolution / ADC-bit	Lowest trigger level (peak)	Noise level
200 m/s <sup>2</sup>	0.02 m/s <sup>2</sup>	0.02 m/s <sup>2</sup>	0.5 m/s <sup>2</sup>	<0.1 m/s <sup>2</sup>
50 m/s <sup>2</sup>	0.005 m/s <sup>2</sup>	0.002 m/s <sup>2</sup>	0.04 m/s <sup>2</sup>	<0.01 m/s <sup>2</sup>
500 mm/s	0.1 mm/s	0.02 mm/s	2.0 mm/s	< 0.5 mm/s
100 mm/s	0.02 mm/s	0.002 mm/s	1.0 mm/s	<0.1 mm/s
75 mm/s RMS	0.02 mm/s RMS	0.002 mm/s RMS	1 mm/s RMS	<0.02 mm/s