

## Engineering for a small planet



# MECAL Spec Guard

The urgency to guard your vibration level is apparent. Front-end equipment becomes faster and delivers higher accuracy, making it more sensitive to the vibrations in the fab.

To optimise yield and maintain your performance level, MECAL has developed the Spec Guard. The Spec Guard is a robust, easy-to-use system that detects vibration levels throughout the fab or on a specific tool position. The Spec Guard allows you to independently carry out reliable measurements, leading to both cost reduction and time saving. It enables you to prevent disruption of your process in an early stage, making costly trouble-shooting trajectories redundant.

This user-friendly instrument has multiple functions:

1. Guarding (guarding spec exceeding)
2. Logging (monitoring)
3. Analysing (measuring and illustrating in different spectra)

Why is the Spec Guard beneficial for you?

- ✓ It is a 3-in-1 device: guarding, logging and analysing
- ✓ It has a robust sensor with high accuracy
- ✓ It is for all machine specifications available
- ✓ It does not require specific technical knowledge
- ✓ Designed for clean room use

## Guard your specs & optimise your yield!

### Technical Specifications

Monitoring	Continuous
No. channels	5X/ Y/ Z channels
Bandwidth	1-100/ 1-200/ 1-400 [Hz]
Dynamic range	> 90 dB
Noise level	< 0.1 [ $\mu\text{m/s}$ ] r.m.s. (for comparison: VC-E = 3 [ $\mu\text{m/s}$ ] r.m.s.)
Momentary views	Time traces, spectra, averaged spectra
Time history views	Broadband average, intensity plot spectrogram
Logging	Averaged and Peak-Hold 1/3rd octave data
Event warnings	Logging, e-mail, sms or external alarm
Reports	Standard event report, standard vibration level report
Options	Integrated screen in raised floor



### Contact

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