
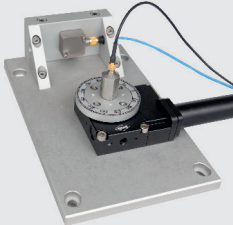
	<p>HERO™ vibration controller incl. signal conditioners</p>	<h2>~ Typical DUTs</h2>
	<p>CS Q-LEAP™ software</p> <ul style="list-style-type: none"> <li>• sensor calibration transverse sensitivity</li> </ul>	<ul style="list-style-type: none"> <li>• Accelerometers</li> </ul> <p>* DUT = Device Under Test</p>
	<ul style="list-style-type: none"> <li>• Precision board to mount the angular actuator</li> <li>• Angular actuator with sensor mounting board</li> <li>• Position control for the angular actuator</li> <li>• If the reference sensor requires an external voltage supply, a suitable module is part of the delivery</li> </ul>	<h2>✓ Standards</h2> <ul style="list-style-type: none"> <li>• Testing of transverse vibration sensitivity according to ISO 16063-31</li> </ul>
		<h2>🔗 Compatibility</h2> <ul style="list-style-type: none"> <li>• Option currently possible with APS 129 and APS 500. Other exciters available on request.</li> </ul>

## ★ Key features

	Calibration system for the frequency range 2 Hz... 50 Hz
	Traceable to PTB (German National Metrology Laboratory)
	Sensor characterization transverse sensitivity
	Integrated sensor database
	Integrated software for the generation of calibration certificates (print, PDF,...) Easy data exchange with applications like ERP systems or measuring equipment databases

# Specification

Measuring device for determining the transverse sensitivity according to ISO 16063-31. Due to the transverse vibration of the exciter being < 0.1% relative to the main sensitivity direction of the DUT, the following measurement uncertainties apply:

Frequency range		Weight of DUT <sup>3)</sup>	Expanded Measurement Uncertainty <sup>1)</sup> Relative Transverse Sensitivity <sup>2)</sup>	PEAK acceleration in m/s <sup>2</sup>	
from	to			min.	max.
2 Hz	25 Hz	200 grams	0.3 %	1	2 - 10
> 25 Hz	50 Hz	50 grams	0.5 %	1	10

- 1) Determined according to GUM (ISO Guide to the expression of uncertainty in measurement) with k = 2 (coverage factor)
- 2) Reference value for interval width of given relative Measurement Uncertainty (e.g. 0.3%) is not the measurement value, as usual (in this case the relative transverse sensitivity), but the dynamic sensitivity of the DUT in direction of main sensitivity at same frequency.
- 3) Higher weight of DUT possible on demand

The following figures show different illustrations of the relative transverse sensitivity.

