CS Q-LEAP™ SHOCK with SE-201

calibration system with shock exciter

	HERO™ vibration controller incl. signal conditioners
	CS Q-LEAP™ software • shock calibration • more on demand
	Shock control unit for control via PC
	SE-201 shock exciter

Typical DUTs

- PE transducer
- IEPE transducer
- VC transducer
- PR transducer
- digital transducer with SPI, I2C, DTI, and many other interfaces

Standards

- ISO 16063 - 22: Calibration of vibration transducers by comparison to a reference transducer
- ISO 17025: General requirements for the competence of testing and calibration laboratories

Key features

- Broad amplitude range 5 g_n… 10 000 g_n (49 m/s² … 98 km/s²)
- Traceable to PTB (German National Metrology Laboratory)
- Calibration of vibration sensors
- 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

Technical data

CS Q-LEAP™ SCHOCK with SE-201

Broad amplitude range	5 g_n… 10 000 g_n (49 m/s² … 98 km/s²)
Pulse width[1]	0.1 ms… 5 ms
Automated regulation of amplitudes	up to 6000 g_n (60 km/s²)
DUT weight, max.	80 g (2.82 oz)

Expanded uncertainty[2]			**Shock-transfer-coefficient S_{SH}**[3]	
Avil type	**from**	**to**	**of analogue sensors**	**of digital sensors with DTI interface**
Low shock (LS)	50 m/s² (5 g_n)	2 500 m/s² (250 g_n)	1.0 %	1.2 %
Medium shock (MS)	2 km/s² (200 g_n)	40 km/s² (4 000 g_n)	1.2 %	n.a.
	40 km/s² (4 000 g_n)	100 km/s² (10 000 g_n)	2.0 %	n.a.

1) The pulse duration depends on the damper material on the anvil and can change due to aging and wear. The values in the table are valid for new standard anvils delivered with the shock exciter.

2) Determined according to GUM (ISO Guide to the expression of uncertainty in measurement, 1995) with k = 2 (coverage factor)

3) Shock-transfer-coefficient is calculated in the time domain by comparing of peak values

Accessories (optional)

PR module	to support the calibration of piezoresistive sensors
Data recorder DTI sensors	to support the calibration of DTI sensors with digital interface