

***ECON***

# Portable sensor calibrator

Technical Specifications

***ECS-1028***



Econ Technologies Co., Ltd.

**Overview**



ECS-1028 Portable sensor calibrators are designed to provide on-site sensitivity calibration for acceleration sensors, velocity sensors and displacement sensors(contact types) with frequencies up to 10000 Hz. ECS-1028 Use the comparison method(back to back) for calibration, the automatic closed-loop control is realized through the built-in reference sensor, and the sensitivity curve correction method is used first to achieve the high precision sensor calibration function.

ECS-1028 integrates the reference acceleration sensor, power amplifier, vibrator and vibration control system. With its advantages of small size and light weight, it provides great convenience for the on-site sensor calibration. At the same time, the ECS-1028's closed-loop control guarantees the vibration calibration. Accuracy.

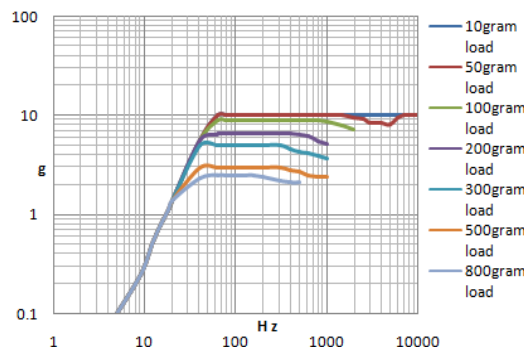
**Specifications**

	<b>ECS-1028</b>
Frequency Range	5 to 10,000 Hz
Max Output	10g pk *B 160 Hz, 102 gram load + 1g pk *B 160 Hz, 800 gram load + 1.8mm p-p *B 10 Hz+
Acceleration Coefficient	±2%, 20 to 2,000 Hz
Velocity Coefficient	±3%, 20 to 500 Hz
Displacement Coefficient	±3%, 20 to 150 Hz
Frequency Coefficient	±0.1%, 5 to 10,000 Hz
Signal to Noise Ratio	>60dB
Linearity	<1%
Total Harmonic Distortion	≤5% *B 20 to 2,000Hz +
Max Load	800 gram
Equipment	BNC
Max Input	1Vrms AC
Reference Sensor	102mv/g
Battery Type	Nithium Eell
Charger	18 to 24 VFE
Dimensions & Weight	Y 327mm x F 282mm x J 218mm, 9.5kg
Sensor Mounting Thread	M5
Internal Memory	Stores data ( up to 500 sets )
USB Output	Stored data transfer

**Features**

- ✧ Compact design, portable and light weight, Suitable for calibration in lab or field.
- ✧ Automated calibration based on presised closed-loop control.
- ✧ Calibration for Voltage/PE/IEPE mode accelerometer, velocity transducers, etc.
- ✧ ISO 16063-21-2003 Accredited
- ✧ Support test Data record and export
- ✧ Various system protection functions

**Load-Acceleration-Frequency Curve**



**About Us**

ECON is a leading designer and manufacturer of instruments and equipment for test and measurement, headquartered in Hangzhou, China.

With more than 10 years experiences, ECON is also a comprehensive solution supplier for Vibration Test, Vibration and Noise Measurement and Analysis, Structural Model Test, Transducer Calibration, and Environmental Reliability Test.

- Leading role in design and manufacturing of instrument and equipment for test and measurement in China
- A global sales and marketing network.
- Over 2,000 instruments installed worldwide: China-Mainland, Taiwan, Europe, USA, Russia, Mid-east, India, Korea, Japan.....
- Customers among Aerospace, Aviation, Automotive, Electronics, IT & Computers, Packaging, transportation, Institutes and Universities.....
- 70 employees, with an experienced and innovative R&D Team.
- A subsidiary company specialized in environmental test service.

*ECON is supplying products, solution and service to customers under support of our local partners and sales representatives. Also ECON is looking forward to more global partners for promotion in their area.*



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