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Data Sheet

August 15, 2026

DWYER/OMEGA

DWYEROMEGA / OMEGA ACC-PS1 Current Source

Dwyer/Omega Calibration Equipment. Current: driven system testing in process control environme.



MODEL	CALIBRATION
Dwyer/Omega ACC-PS1	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
ACC-PS1	https://aumictechlabs.com/products/acc-ps1-3/

- NIST-traceable cal
- SAM registered
- 30-day returns
- NAICS 423690 · 811210 · 541380

This unit

The Dwyer/Omega ACC-PS1 is a battery-operated current source designed to power dynamic sensors and transducers with integral impedance-converting electronics. It delivers fixed 2 mA DC excitation at +18 VDC, making it essential for stable performance verification in process control loops and sensor calibration applications. The unit operates on two 9-volt transistor radio batteries and includes an integrated front-panel voltmeter for real-time monitoring and diagnostic verification. Technical Specifications Current Output: 2 mA DC (fixed, non-adjustable) Voltage Output: +18 VDC (fixed, non-adjustable) Power Source: Two 9-volt transistor radio batteries Sensor Excitation Range: Compatible with sensors requiring 2 to 20 mA at +18 to +30 VDC Connectors: BNC coaxial connectors for sensor and output jacks Shipping Weight: Approximately 3 lbs Key Features Fixed output precision ensures repeatable test conditions without drift or adjustment Portable battery operation enables field and lab deployment Integrated voltmeter

monitors sensor operating voltage and detects opens/shorts in cables and connectors Press-to-test button verifies battery condition without interrupting measurements BNC coaxial connectors provide standard, secure sensor connections Typical Applications Dynamic sensor and accelerometer excitation Transducer calibration and performance verification Current-driven system testing in process control environments Cable and connector integrity diagnostics Compatibility & Integration The ACC-PS1 is compatible with instruments requiring constant 2 mA excitation at 18 VDC, including accelerometers and other dynamic sensors rated for nominal 2 mA operation. Integration with monitoring and data acquisition systems is facilitated by standard BNC connectivity.

ACCPS1 Characteristics / Specifications

PARAMETER	VALUE
Model	ACC-PS1
Instrument Type	Battery powered accelerometer current source
Family	OMEGA ACC-PS1 / ACC-PS2
Channels	1
Excitation Voltage	18 VDC fixed
Excitation Current	2 mA fixed
Voltage Gain	1x (plus or minus 2 percent family gain spec)
Output Full Scale	10 VDC peak
Noise	0.06 mV rms (catalog 0 to 10 kHz row)
Input Power	two 9 V batteries
Battery Life	80 hours
Sensor Connector	BNC
Output Connector	BNC
Dimensions	133 × 66 × 44 mm (5.25 × 2.6 × 1.75 in)
Weight	31 g (11 oz catalog row)
Battery Test	press-to-test without disturbing the measurement
Bias Meter	front panel voltmeter for sensor operating voltage, opens and shorts
Adjustability	current and voltage fixed (not adjustable)
Sensor Class	dynamic sensors with integral impedance converters, 2 to 20 mA / 18 to 30 VDC class
Manufacturer	OMEGA (DWYEROMEGA)
Literature	OMEGA ACC-PS1 / ACC-PS2 accelerometer power supply catalog table and ACC-PS1 current-source listing
Sibling	ACC-PS2 24 VDC 2 mA with 1x/10x/100x gain and 12 hour NiCad pack
Housing	portable battery enclosure with BNC pair

ACCPS1 Specifications

PARAMETER	VALUE
Applications	Field and bench power for constant-current piezoelectric accelerometers and other 2 mA / 18 V IEPE sensors.
Key Features	Single-channel 2 mA at 18 VDC IEPE source
Technical Specifications	Model: ACC-PS1

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From OMEGA ACC-PS1/ACC-PS2 catalog specifications and the ACC-PS1 current-source description (2 mA at 18 VDC fixed, two 9 V cells). ACC-PS2 gain and 24 V figures are not copied onto ACC-PS1.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.