

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11683A

The Keysight 11683A (formerly Agilent) is a high-precision range calibrator designed to verify the full-scale readings, range tracking, and auto-zero circuits of EPM, EPM-P, E1416A, and legacy 43X-series power meters.

SPECIFICATIONS

Physical

Power Supply	100 / 120 / 220 / 240 Vac (+5%, -10%), 48 - 440 Hz, < 10 VA
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	133 mm × 89 mm × 216 mm mm
Weight	1.13 kg kg

Calibration & Output Characteristics

Calibration Outputs	3, 10, 30, 100, 300 μW and 1, 3, 10, 30, 100 mW
Calibration Uncertainty	±0.25% in all ranges
DC Source Impedance	650 Ω ±0.5%
Polarity Switch	Normal / Reverse (tests the power meter auto-zero circuit)
Output Cable	Integrated 1.5 m (5 ft) cable with a 12-pin male connector

Compatibility

Compatible Power Meters	Keysight EPM, EPM-P, E1416A, 70100A, 435B, 436A, 437B, 438A
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Power Requirements

AC Line Voltage Settings	100 V / 120 V / 220 V / 240 V (+5%, -10%)
Line Frequency Range	48 to 440 Hz
Power Consumption	< 10 VA
Voltage Selection	Rear-panel slide switches for selecting nominal line voltage (100, 120, 220, or 240 VAC)

Environmental

Storage Temperature Range	-40 to 75 °C
Operating Relative Humidity	95% R.H. at 40 °C
Operating Altitude	Up to 4,570 m (15,000 ft)
Storage Altitude	Up to 15,240 m (50,000 ft)

Physical Dimensions

Width	133 mm (5.25 in)
Height	89 mm (3.5 in)
Depth	216 mm (8.5 in)
Net Weight	1.13 kg (2.5 lb)
Shipping Weight	1.6 kg (3.5 lb)

Controls

METER SELECT Switch	Two positions: 435A/436A and 437A/438A (matches input impedance)
CALIBRATE/STANDBY Switch	Toggles output signal on (Calibrate) and off (Standby)

Connectivity

Integrated Cable Connector	12-pin male connector (compatible with Agilent/HP 43X series power meters)
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Physical Characteristics

Output Cable Length	1.5 m (5 ft)
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Outputs

Polarity Selection	Positive or Negative (selectable via rear-panel switch)
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Functional Specifications

Standby Mode Function	Disconnects the calibration signal from the output connector
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Inputs & Outputs

Output Connector Pin Count	12-pin male
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Controls & Indicators

Power Switch	Front-panel LINE push-button switch (On/Off)
Power Indicator	LED indicator for line power status

APPLICATIONS

Power Meter Calibration and Verification

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.