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Data Sheet

August 15, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 4152A 6.5 Digit Digital Multimeter

Astronics EADS Racal 4152A 6.5 Digit VXI Digital Multimeter The Racal Instruments 4152A is a single-slot C-size VXIbus 6.5-digit DMM measuring DC/AC voltage and current, 2/4-wire resistance, frequency/period, and DC/DC ratio. OEM 4152A data sheet lists continuously integrating multi-slope III A/D, up to 6 readings/s at 6.5 digits with up to 0.0019% accuracy or 1000 readings/s at 4.5 digits with up to 0.012% accuracy, 65 range changes/s, 30 function changes/s, 300 V maximum, and 9.4 W total power. VXI ATE analog measurement of voltage, current, resistance, frequency, and DC ratio with scanned 1260-series switching. The Racal Instruments 4152A is a single-slot C-size VXIbus 6.5-digit DMM measuring DC/AC voltage and current, 2/4-wire resistance, frequency/period, and DC/DC ratio. OEM 4152A data sheet lists continuously integrating multi-slope III A/D, up to 6 readings/s at 6.5 digits with up to 0.0019% accuracy or 1000 readings/s at 4.5 digits with up to 0.012% accuracy, 65 range changes/s, 30 function changes/s, 300 V maximum, and 9.4 W total power. VXI ATE analog measurement of voltage, current, resistance, frequency, and DC ratio with scanned 1260-series switching.

**MODEL****Astronics / EADS /
Racal 4152A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****4152A****LISTING**<https://aumictechlabs.com/products/4152a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astronics/EADS/Racal 4152A is a 6.5-digit VXIbus digital multimeter engineered for high-throughput automated test systems. This single-slot C-size VXI module delivers simultaneous DC and AC voltage and current measurements alongside 2/4-wire resistance, frequency, and DC ratio capabilities - all in one compact instrument. Built for production environments requiring rapid measurement cycles, the 4152A supports limit testing, averaging, math operations, and vector calculations with exceptional switching speed: up to 65 range changes per second and 30 function changes per second. Technical Specifications Form Factor: Single-slot, C-size VXIbus module Resolution: 6.5 digits Measurement Functions: DC voltage (1 V, 10 V, 100 V, 300 V ranges); AC voltage (1 V, 10 V, 100 V, 300 V ranges); DC current (1 A, 3 A ranges with 1% overrange on 3 A); AC current (1 A, 3 A ranges); 2-wire and 4-wire resistance (1 k Ω , 10 k Ω , 100 k Ω ranges); frequency (10 Hz to 1000 Hz); DC ratio measurements Reading Speed: Up to 6 readings/second at 6.5 digits with 0.0019% accuracy; up to 1000 readings/second at 4.5 digits Frequency Measurement: Gate times selectable at 10 ms, 100 ms, or 1 s; accuracy $\pm 4\%$ of reading $\pm 1\%$ of full scale (10–500 Hz) or $\pm 5\%$ of reading $\pm 1\%$ of full scale (500–1000 Hz) AC Voltage Accuracy: 100 mV to 100 V ranges specified for sine wave input exceeding 5% of range; 300 V range specified for sine wave input exceeding 15% of range; 300 VAC limited to 50 kHz 2-Wire Resistance: Add 0.2 Ω additional error (or use Math Null function) Operating Temperature: 0 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ Key Features Fast function and range switching enables rapid test cycle times Math and vector operations for on-instrument data processing Frequency measurement with multiple gate time options for resolution/speed trade-off DC ratio capability for ratiometric testing Native support for LabWindows/CVI and LabVIEW environments Typical Applications Automated production test systems, component characterization, board-level functional testing, high-volume manufacturing environments. Compatibility & Integration VXIbus architecture with standard instrument drivers for LabWindows/CVI and LabVIEW integration.

4152A Characteristics / Specifications

PARAMETER	VALUE
Model	4152A
Instrument Type	6.5 digit VXI digital multimeter
Module Size	C-size VXI, single slot
Interface	message-based VXIbus 1.4
Digits	6.5
Adc Method	continuously integrating multi-slope III
Adc Linearity	0.0002% of reading plus 0.0001% of range
Dcv Maximum	300 V
Dcv Best Accuracy	plus or minus 0.0019%
Dcv 10 V 1 Year	0.0035% of reading plus 0.0005% of range
Dcv Input Resistance Low Ranges	10 megohm or 10 gigohm selectable (0.1 V, 1 V, 10 V)
Dcv Input Resistance High Ranges	10 megohm plus or minus 1% (100 V, 300 V)
Input Bias Current	less than 30 pA at 25 C
Acv Maximum	300 Vrms
Acv Best Accuracy	plus or minus 0.07%
Ac Filter Slow	3 Hz to 300 kHz
Resistance Maximum	100 megohm
Resistance Best Accuracy	plus or minus 0.0025%
Dci Maximum	3 A
Aci Maximum	3 Arms
Reading Rate 6p5 Digit	6 per second
Reading Rate 4p5 Digit	1000 per second
Range Change Rate	65 per second
Function Change Rate	30 per second
Frequency Best Accuracy	0.006% of reading

PARAMETER	VALUE
Total Power	9.4 W
Plus 12 V Current	0.7 A IPM
Mass	2 lb 10 oz (1.2 kg)
Operating Temperature	0 to 55 C
Storage Temperature	minus 40 to 70 C
Software	SCPI 1993, IEEE 488.2

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Operating temperature	0 to 55 C
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Software	SCPI 1993, IEEE 488.2 Notes From Astronics Test Systems Racal Instruments 4152A 6.5 Digit Digital Multimeter data sheet (accuracy tables, system speeds, mechanical/power). 24-hour DCV 10 V specification is 0.0015% + 0.0004% of range at 23 plus or minus 1 C.

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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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

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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.