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Data Sheet

August 15, 2026

ANALOGIC

Analogue AN3100

Analogue AN3100 Precision Data Acquisition Instrument The Analogue AN3100 is a precision data acquisition / waveform instrument in the Analogue AN3xxx family. OEM Analogue AN3100 literature covers high accuracy analog measurement and conversion for laboratory and ATE. Precision analog measurement, waveform capture, and ATE analog front ends. Instrument Type: precision data acquisition instrument The Analogue AN3100 is a precision data acquisition / waveform instrument in the Analogue AN3xxx family. OEM Analogue AN3100 literature covers high accuracy analog measurement and conversion for laboratory and ATE. Precision analog measurement, waveform capture, and ATE analog front ends. Instrument Type: precision data acquisition instrument Form Factor: benchtop/system analog instrument



MODEL

Analogue AN3100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AN3100

LISTING

<https://aumictechlabs.com/products/an3100-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Analogue AN3100 is a precision DC voltage standard for high-accuracy calibration and metrology applications. It generates stable, low-noise voltage outputs across dual ranges with exceptional linearity and long-term stability. The instrument delivers main output voltages to ± 11.1110 V DC with 100 μ V resolution and auxiliary outputs to ± 111.110 mV DC with 1 μ V resolution, supporting source currents to 50 mA and sink currents to 3 mA. Absolute accuracy reaches ± 50 PPM of reading ± 50 μ V on the main output, with temperature stability of ± 2 PPM/ $^{\circ}$ C and 60-day drift limited to ± 15 PPM. Technical Specifications Output Ranges & Resolution Main output: 0 to

± 11.1110 V DC (100 μ V resolution via five dialable decades and ± 1 mV vernier) Auxiliary output: 0 to ± 111.110 mV DC (1 μ V resolution) MV output: Three-pin rear socket provides 1/100 of front panel voltage Accuracy & Stability Main output absolute accuracy: ± 50 PPM of reading, ± 50 μ V (includes 6-month stability and linearity) Auxiliary output absolute accuracy: ± 150 PPM of reading, ± 0.5 μ V (includes 6-month stability and linearity) Long-term stability: ± 15 PPM over 60 days Linearity: ± 25 PPM Temperature coefficient: ± 2 PPM/ $^{\circ}$ C Output Characteristics Main output impedance (DC): 10 m Ω maximum; (dynamic) $L \leq 10$ μ H, $R \leq 20$ Ω Auxiliary output impedance: 100 Ω Noise (main output): (0.001% of reading + 50 μ V) peak-to-peak Settling time: ≤ 300 ms Output isolation: Floatable to ± 500 V DC above or below chassis ground Current Capability (Main Output) Source: 0 to 50 mA, short-circuit proof Sink: 0 to 3 mA Load capacitance: unrestricted Thermal & Operational Warmup: < 10 minutes to rated accuracy; $\pm 0.02\%$ accuracy without warmup delay Operating temperature: 0° to $+60^{\circ}$ C Storage temperature: -25° to $+85^{\circ}$ C Humidity: 0–85% RH non-condensing Power & Physical Power: 117/234 VAC, 47–420 Hz, 10 W maximum (RF filter included) Dimensions: 3.5" H $\times$ 8.5" W $\times$ 12" D (89 mm H $\times$ 216 mm W $\times$ 305 mm D) Construction: Bench aluminum-alloy case with carrying handle; 19" rack adapter available Recalibration interval: 6 months

Key Features Five front-panel decade knobs for manual voltage selection Dual output ranges accessible from front binding posts and rear terminals Low output impedance and unrestricted capacitive loading Noise floor independent of output voltage magnitude Fast settling enables rapid test sequencing

Typical Applications Precision calibration of digital multimeters and voltage standards DC reference verification in metrology laboratories Component testing requiring known reference voltages Long-term stability monitoring of measurement instruments

Compatibility & Integration The AN3100 integrates into calibration workflows via standard front binding posts and rear panel connectors. Dual voltage outputs support simultaneous multi-channel reference applications. Floating output capability enables testing of isolated or differential circuits.

AN3100 Characteristics / Specifications

PARAMETER	VALUE
Model	AN3100
Instrument Type	precision data acquisition instrument
Family	Analogic AN3xxx
Manufacturer	Analogic
Form Factor	benchtop/system analog instrument
Application Class	precision analog measurement
System Role	DAQ / waveform instrument
Use Case	laboratory and ATE analog
Documentation Type	OEM Analogic AN3100 listing
Accuracy Class	AN3100 accuracy on the Analogic sheet
Resolution Class	AN3100 resolution on the sheet
Bandwidth Class	AN3100 bandwidth on the sheet
Range Class	AN3100 input ranges on the sheet
Interface Class	AN3100 GPIB/host on the sheet
Brand Lineage	Analogic
Literature	Analogic AN3100 precision instrument literature
Sampling Class	AN3100 sample rate on the sheet
Input Class	analog input
Trigger Class	AN3100 trigger on the sheet
Operating Temperature Class	AN3100 ambient on the sheet
Mains Class	AN3100 AC input on the sheet
Mounting Class	benchtop/rack
Calibration Class	analog accuracy
Memory Class	AN3100 memory on the sheet
Channel Class	AN3100 channel count on the sheet

PARAMETER	VALUE
Bandwidth	Class: AN3100 bandwidth on the sheet
Operating temperature	Class: AN3100 ambient on the sheet

AN3100 Specifications

PARAMETER	VALUE
Analogic AN3100 Precision Data Acquisition Instrument	Overview
Key Features	Analogic AN3xxx precision instrument
Benchtop/system analog	AN3100 family member
Technical Specifications	Model: AN3100

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: AN3100 ambient on the sheet
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Operating Temperature Class	AN3100 ambient on the sheet
Mains Class	AN3100 AC input on the sheet
Mounting Class	benchtop/rack
Calibration Class	analog accuracy
Memory Class	AN3100 memory on the sheet
Channel Class	AN3100 channel count on the sheet Notes From Analogic AN3100 precision instrument listings in the AN3xxx family. Exact bits, ranges, and sample rate are on the AN3100 sheet; do not invent bit depth.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.