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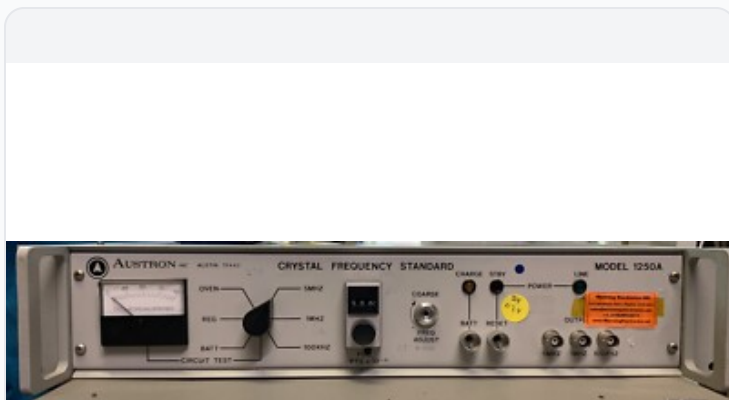
Data Sheet

August 1, 2026

AUSTRON

AUSTRON 1250A QUARTZ CRYSTAL FREQUENCY STANDARD

Austron 1250A Quartz Crystal Frequency Standard The Austron 1250A is a rack-mount secondary quartz crystal frequency standard built around the sealed Austron 1150 ovenized crystal oscillator. Dividers and output amplifiers provide simultaneous high-stability sine outputs at 5 MHz, 1 MHz, and 100 kHz on front- and rear-panel BNCs, plus a 1 MHz clock-drive output. An internal NiCd battery pack supports about ten hours of standby operation, and the unit also accepts external 17 to 35 VDC negative-ground power in addition to 115/230 VAC. The Austron 1250A is a rack-mount secondary quartz crystal frequency standard built around the sealed Austron 1150 ovenized crystal oscillator. Dividers and output amplifiers provide simultaneous high-stability sine outputs at 5 MHz, 1 MHz, and 100 kHz on front- and rear-panel BNCs, plus a 1 MHz clock-drive output. An internal NiCd battery pack supports about ten hours of standby operation, and the unit also accepts external 17 to 35 VDC negative-ground power in addition to 115/230 VAC. Laboratory and rack frequency reference for counters, synthesizers, and communications test; secondary standard before atomic clocks became ubiquitous; clean-up / stand-alone OCXO reference with external electronic tuning; portable operation on internal battery during AC outages.



MODEL

Austron 1250A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1250A

LISTING

<https://aumictechlabs.com/products/1250a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The AUSTRON 1250A is a rack-mountable quartz crystal frequency standard that delivers stable, precise reference signals for synchronization and calibration applications. Built on the proven Austron 1150 platform - a five-megacycle proportional-controlled ovenized oscillator - the 1250A combines AC line power, optional external 24 V supply, and an internal Ni-Cad 12-cell (14.4 V) battery with trickle and charging circuits. Three output frequencies serve diverse measurement requirements: 5 MHz primary output, plus 1 MHz and 100 kHz derived from frequency dividers. A dedicated clock output supplies an additional 1 MHz signal. The unit maintains frequency stability through oven control, monitored via a front-panel meter with six selectable functions: Battery, Regulator, Oven current, 5 MHz amp drive, 1 MHz amp drive, and 100 kHz amp drive.

Features & description

From manufacturer datasheet

Features

- Ovenized quartz oscillator (Austron 1150 sealed module)
- Simultaneous 5 MHz, 1 MHz, and 100 kHz outputs (front and rear BNC)
- 1 MHz clock-drive sinusoidal output
- Fine digital frequency dial (5000 divisions) and coarse adjustment
- External electronic tuning $\pm 5 \times 10^{-8}$ with ± 5 VDC applied
- Internal NiCd standby battery about 10 hours at 25 C
- Alarm contact closure on primary power failure
- 19-inch rack adapters furnished

1250A Characteristics / Specifications

PARAMETER	VALUE
Model	1250A
Manufacturer	Austron
Instrument Type	Quartz crystal frequency standard (secondary standard)
Height	3.5 in
Width	17 in (19 in with rack adapters)
Depth	11.68 in behind rack panel; 13.75 in overall
Weight	20 lb 12 oz Outputs
Frequencies	5 MHz, 1 MHz, 100 kHz; 1 MHz clock drive
Output Level	greater than 1 Vrms into 50 ohms; clock drive greater than or equal to 0.5 Vrms into 1 kohm
Connectors	BNC front and rear for RF outputs; clock and external tuning rear BNC Frequency Adjustment
Fine	greater than 90×10^{-9} with digital dial (5000 divisions)
Coarse	greater than 300×10^{-9}
External Tuning	$\pm 5 \times 10^{-8}$ with +5 V to -5 V applied Stability (manual Table 1-2)
Long Term	less than 5×10^{-10} after 24 hours; 1×10^{-10} /day after 30 days continuous operation; ultimate drift typically 5×10^{-11} /day after 90 days
Medium Term	less than 1×10^{-11} rms for 120 s averaging
Short Term	less than 5×10^{-12} rms for 1 s averaging Power AC: 115/230 VAC $\pm 10\%$, 48 to 420 Hz DC: 17 to 35 VDC negative ground
Consumption	12 W maximum
Battery Recharge	14 to 16 hours
Alarm Contacts	rated 5 A, 120 VAC Standard Operating Conditions Allow oven warm-up before quoting stability. Do not open the sealed 1150 oscillator module. Periodic calibration is required for absolute frequency accuracy as the crystal ages.

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.

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Operational Notes

The 1250A is a free-running OCXO standard with optional external voltage tuning; it is not a GPS-disciplined oscillator. Confirm battery health on used units. Related Austron family members include stand-alone 1150 oscillators and other 12xx rack standards.

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.