

**Aumictech**

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Data Sheet

August 13, 2026

ANRITSU

Anritsu MF1602A Frequency Counter

Anritsu MF1602A Frequency Counter to 1 GHz The Anritsu MF1602A is a benchtop dual-channel frequency counter covering from millihertz on Channel 1 through 1 GHz on Channel 2. It measures frequency, totalize, pulse width, and burst frequency with processing and mask functions for production and lab frequency evaluation of RF and digital circuits. The Anritsu MF1602A is a benchtop dual-channel frequency counter covering from millihertz on Channel 1 through 1 GHz on Channel 2. It measures frequency, totalize, pulse width, and burst frequency with processing and mask functions for production and lab frequency evaluation of RF and digital circuits.



MODEL

Anritsu MF1602A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MF1602A

LISTING

<https://aumictechlabs.com/products/mf1602a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MF1602A is a dual-channel frequency counter engineered for high-speed, high-resolution RF measurements across communication and test applications. It delivers 10-digit display resolution in one second using reciprocal and vernier techniques, with a measurement throughput of 80 ms. The instrument performs frequency, period, pulse width, and totalizing measurements with specialized capabilities for burst signals, noisy environments, and delayed-gate analysis. Technical Specifications Frequency Measurement Range Channel 1: 0.1 mHz to 100 MHz Channel 2: 10 MHz to 1 GHz Overall: 0.1 mHz to 1 GHz Measurement Performance

Throughput: 80 ms Time base stability: 0.05 ppm/year Time base aging: $\leq 4 \times 10^{-8}$ /week, $\leq 8 \times 10^{-8}$ /month, $\leq 1 \times 10^{-7}$ /year Channel 1 sensitivity: 0.01 Vrms Gate times: 0.4 ms, 2 ms, 20 ms, 0.2 s, 2 s, 20 s (selectable) Key Features Measurement Modes Frequency: High-speed and high-resolution across full 0.1 mHz to 1 GHz range Period: 10 ns to 1000 s Pulse width: 10 ns single-shot resolution; 300 ps average mode resolution; positive or negative slope selectable Totalizing: Up to 100 MHz pulse counting Advanced Capabilities Burst signal measurement with synchronous gate opening; 6-digit display achievable at 0.4 ms gate time Signal masking: Period measurement immunity to noise for 5 μ s to 1600 s ranges - suited for relay switching characterization Gate mask function: Adjustable measurement delay from 1 μ s to 16 s to suppress transient signal artifacts Data processing: ppm display, arithmetic operations, ratio/deviation/unit conversion, measurement setup storage and recall Compatibility & Integration Optional GP-IB interface enables automated measurement and monitoring system integration. Standard accessories include J0127A coaxial cable, J0017 power cord, J0266 adaptor, and F0010 fuse.

Features & description

From manufacturer datasheet

Features

- Two channel frequency counter architecture

Applications

- RF oscillator and VCO frequency adjustment to 1 GHz

MF1602A Characteristics / Specifications

PARAMETER	VALUE
Model	MF1602A
Manufacturer	Anritsu
Instrument Type	Benchtop Frequency Counter
Alias	MF1602A; Anritsu MF1602A
Number of channels	2
Channel 1 minimum frequency	0.1 mHz
Channel 1 maximum frequency	100 MHz
Channel 1 sensitivity	0.01 Vrms
Channel 2 minimum frequency	10 MHz
Channel 2 maximum frequency	1.0 GHz
Measurement functions	Frequency, Count totalization, Pulse width, Burst frequency
Processing function	yes
Mask function	yes
Totalizing	yes
Pulse width measurement	yes
Burst signal measurement	yes
High speed mode	yes
Measurement throughput	80 ms class
Time base stability	0.05 /yr class
Form factor	benchtop frequency counter
Primary frequency class	1 GHz maximum Channel 2
Channel architecture	dual channel Ch1/Ch2
Display class	digital frequency counter readout
Remote readiness	production throughput oriented
Warm up class	standard crystal time base warm up

PARAMETER	VALUE
Operating use	RF and digital frequency evaluation
Primary use	dual channel frequency counting to 1 GHz
Related series family	Anritsu MF series frequency counters
Input coupling class	AC coupled RF inputs typical
Impedance class	50 ohm RF path on high band channel typical
Resolution class	gate time dependent digital resolution
Trigger class	internal trigger for burst/pulse modes
Gate class	selectable gate for frequency averaging Notes Specs from Anritsu MF1602A reseller technical listings (Ch1 0.1 mHz–100 MHz; Ch2 10 MHz–1 GHz; throughput 80 ms; time base 0.05/yr). Confirm exact sensitivity, connectors, and options on the unit faceplate/operation manual.

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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Channel 1 sensitivity	0.01 Vrms
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PARAMETER	VALUE
Channel 2 maximum frequency	1.0 GHz
Measurement functions	Frequency, Count totalization, Pulse width, Burst frequency
Processing function	yes
Specifications	
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Mask function	yes
Totalizing	yes
Pulse width measurement	yes

Specifications

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Burst signal measurement	yes
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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.