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Data Sheet

August 13, 2026

ANRITSU

Anritsu ML428B Interference/Field Strength Meter, 9 kHz â€" 30MHz

Anritsu ML428B Interference / Field Strength Meter 9 kHz to 30 MHz The Anritsu ML428B is an interference and field strength meter covering 9 kHz to 30 MHz for broadcast, communications, and CISPR/VDE/FCC-class disturbance measurements. A synthesized local oscillator and high-precision sine-wave comparison oscillator provide repeatable level data, while a built-in microprocessor automates level calibration and attenuator ranging for direct field-strength readout. GPIB, 100-frequency memory, BFO, and a tracking generator support lab and outdoor DC-powered surveys. The Anritsu ML428B is an interference and field strength meter covering 9 kHz to 30 MHz for broadcast, communications, and CISPR/VDE/FCC-class disturbance measurements. A synthesized local oscillator and high-precision sine-wave comparison oscillator provide repeatable level data, while a built-in microprocessor automates level calibration and attenuator ranging for direct field-strength readout. GPIB, 100-frequency memory, BFO, and a tracking generator support lab and outdoor DC-powered surveys.



MODEL

Anritsu ML428B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ML428B

LISTING

<https://aumictechlabs.com/products/ml428b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu ML428B is a precision interference and field strength meter engineered for EMI characterization and RF field measurements across the 9 kHz to 30 MHz band. Purpose-built for EMC testing environments, it delivers direct digital field strength readout and multi-standard compliance (CISPR, VDE, FCC) through selectable Average, Quasi-Peak, and Peak detectors with frequency-dependent time constants. The instrument combines a synthesized local oscillator with auto-ranging capability, eliminating manual attenuator adjustment and streamlining signal-level characterization across demanding test protocols.

Technical Specifications

Frequency range: 9 kHz to 30 MHz
Frequency setting increments: 1 kHz, 10 kHz, 100 kHz, 1 MHz
Input impedance: 50 Ω nominal, N-type connector
Detectors: Average, Quasi-Peak, Peak
Peak hold time (PEAK mode): 0.05 s, 0.3 s, 3 s selectable
Quasi-Peak time constants: 45 ms charge/500 ms discharge (9 kHz–149 kHz); 1 ms charge/160 ms discharge (150 kHz–30 MHz)
Frequency memory: 100 programmable channels
IF output: 455 kHz
Power supply: 100–127 VAC or 200–250 VAC (transformer selectable); DC 11.5–24V @ ≤ 2 A
Power consumption: ≤ 40 VA
Dimensions: 145 mm H $\times$ 280 mm W $\times$ 350 mm D

Key Features

- Auto-ranging eliminates attenuator manual control
- Direct digital electrical field strength display with no table lookup required
- One-keystroke level calibration
- Equalizer circuit ensures conformance to CISPR mechanical time constants when recording
- Signal monitoring: A3A, A2B, A3E modulation with internal speaker, earphone jack, and Beat Frequency Oscillator
- Frequency synthesizer provides stable local oscillator operation

Antenna Configuration

Designed for use with loop or rod antennas for electrical field strength measurement.

Integration & Control

IEEE-488 (GP-IB) standard interface with full SH1, AH1, T7, TEO, L4, LEO, SR1, RL2, PPO, DC1, DTO, CO compliance

Analog recorder connector for data logging

Antenna control connector for automated probe positioning

Features & description

From manufacturer datasheet

Features

- Frequency coverage 9 kHz to 30 MHz • Synthesizer local oscillator • Direct field strength readout • Auto calibration and auto range • Preset memory 100 frequencies • BFO and built in tracking generator
- GPIB standard • CISPR compliant interference measurement modes

Applications

- Broadcast and communications field strength surveys • CISPR VDE FCC interference wave measurements • Outdoor portable EMI investigations with DC power • Tracking generator swept response checks • Automated GPIB level and frequency logging

ML428B Characteristics / Specifications

PARAMETER	VALUE
Model	ML428B
Manufacturer	Anritsu
Instrument Type	Interference / Field Strength Meter
Alias	ML428B; Anritsu ML428B
Frequency range	9 kHz to 30 MHz
Input impedance	nominal 50 ohm
Input connector	BNC
Frequency display	LCD 5 digits
Frequency display resolution 10 kHz to 30 MHz	1 kHz minimum digit
Frequency step dial selections	1 kHz, 10 kHz, 100 kHz, 1 MHz
Fine tune range	continuous within plus or minus 1 kHz
Frequency memory	100 presets
Reference oscillator aging rate	plus or minus 1×10^{-6}
Reference oscillator temperature stability	plus or minus 2.5×10^{-5}
Minimum level 9 kHz to 49 kHz	-15 dBuV (C/N=6 dB, BW 200 Hz, average)
Minimum level 50 kHz to 149 kHz	-17 dBuV (C/N=6 dB, BW 200 Hz, average)
Minimum level 150 kHz to 30 MHz	-20 dBuV (C/N=6 dB, BW 200 Hz, average)
Maximum level LOG meter	115 dBuV
Maximum level LIN meter	95 dBuV
Maximum level digital display	115 dBuV
Level accuracy	plus or minus 1.5 dB (at least 20 dB above minimum)
Input level adjustment range	110 dB in 10 dB steps
RF attenuator	10 dB x 6 high frequency attenuator stages
Bandwidth 200 Hz band 6 dB	200 Hz +20 Hz / -30 Hz
Bandwidth 3 kHz band 6 dB	3 kHz plus or minus 0.3 kHz

PARAMETER	VALUE
Bandwidth 9 kHz band 6 dB	9 kHz plus or minus 1 kHz
Image rejection	70 dB or greater
DimensionsHxWxD	145 mm x 280 mm x 350 mm
Mass	11 kg or less
Compliance measurement standards	CISPR, VDE, FCC class
Remote control	GPIO standard
Outdoor power	DC power source capable
Related antenna example	MP414B loop antenna Notes Specs from Anritsu ML428B Interference/Field Strength Meter catalog excerpts (9 kHz–30 MHz; levels; bandwidths; 145×280×350 mm; ≤11 kg). Confirm antenna factors loaded for direct field-strength readout and calibration status on the unit.
Bandwidth	200 Hz band 6 dB: 200 Hz +20 Hz / -30 Hz

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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PARAMETER	VALUE
Frequency step dial selections	1 kHz, 10 kHz, 100 kHz, 1 MHz
Fine tune range	continuous within plus or minus 1 kHz
Frequency memory	100 presets
Reference oscillator aging rate	plus or minus 1 x 10 ⁻⁶
Reference oscillator temperature stability	plus or minus 2.5 x 10 ⁻⁵
Minimum level 9 kHz to 49 kHz	-15 dBuV (C/N=6 dB, BW 200 Hz, average)
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Notes

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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.