

PS-2A Series Portable Spectrum Analyzers

Specifications

FREQUENCY

Frequency Range:

0.1 - 1060 MHz (1175 MHz Max.)

Frequency Span Ranges:

0 - 100 MHz/Div (11 steps) in 1-2-5

sequence + zero (Audio Demod)

Frequency Span Accuracy: +/- 10%**Resolution Bandwidths (-3 dB):**

10 KHz, 30 KHz, 100 KHz, 300 KHz, 1 MHz

(internal auto switched)

Residual FM: 20 KHz p-p

Drift: < 150 KHz/Hour (after 60 min. warmup)

AMPLITUDE

Measurement Range:

- 108 dBm to + 20 dBm (at narrow Res.BW)

Flatness: +/- 2 dB (reference at 500 MHz)

Log Scale Accuracy:

10 dB/Div ———— +/- 2 dB over 70 dB typ.

+/- 3 dB over 80 dB typ.

2 dB/Div ———— +/- 0.5 dB per 2 dB

+/- 1.5 dB over 10 dB

3rd Order Intermodulation:

> -70 dBc (for 2 signals at 3 MHz spaced)

Amplitude Stability:

+/- 2 dB in all resolution bandwidths

Residual Spurious Response:

< -100 dBm (with no signal input)

Average Noise Level:

< -108 dBm (at narrow span width)

INPUT

RF Input: 50 Ohm BNC type (> 15dB R.L.)

Input Reference Level:

- 30 dBm to +20 dBm

Input Attenuator:

50 dB range in 10 dB steps

Max Input Level:

+ 20 dBm or +/- 25 VDC with maximum input attenuation
Automotive DC-DC Charging System

ACCESSORIES SUPPLIED:

- ✓ Carrying bail & tensioning knobs **HD-04**
- ✓ 120 VAC power cord **AC-05**
- ✓ Spare fuse **X-001**
- ✓ Operator's manual **VT-2A**

DISPLAY

Screen Display Ranges:

80 dB (**10 dB/Div**), 16 dB (**2 dB/Div**)

Total Dynamic Range:

130 dB (with 50 dB attenuator applied)

Reference Level Accuracy: +/- 2 dB**Frequency Readout:**

4 digit LED display, resolution 1 MHz

Frequency Accuracy:

1 MHz of mid dispersion (at slow scan rate)

Scan Rate: 3 - 30 Hz (adjustable)**Video Filter:** 3 KHz (on/off mode)

AUDIO

Sensitivity: < -95 dBm**Demodulation:** AM and FM (Audio/Video)

(with built-in speaker)

TRACKING GENERATOR (optional TG-01)

Frequency Range : 1.0 - 1000 MHz**Flatness:** +/- 2dB**Output Level Range:** -40 dBm to -10 dBm

(adjustable)

Spurious: Harmonics < -20dBc

Non-Harmonics < -40dBc

Output Impedance: 50 Ohm BNC type

GENERAL CHARACTERISTICS

CRT: 3.5 inch, green phosphor, 8 x 10 graticules

Temperature: (operating) -10 to +45 °C

Dimension: 10.3" W x 4.0" H x 12.3" D

Weight: approx. 10 lbs (without options)

Power Requirements:

AC: 115 / 230 VAC +/-10% 50/60 Hz

External DC Source: + 12 to + 14 V (1.0 A)

Internal: +12 VDC battery pack (3.4 Ahr)

(optional **BAT-02**)

OPTIONS:

- ✓ Tracking Generator (**PS-2A** only) **TG-01**
- ✓ + 12 VDC battery pack & charging circuitry installed inside the unit **BAT-02**
- ✓ Cordura Nylon Carrying Case **CAS-06**

(Specifications subject to change without notice)

MADE IN U.S.A.

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