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Data Sheet

August 13, 2026

FLUKE

Fluke PM 3394B Autoranging CombiScope, 200 MHz, 4-Channel

The Fluke/Philips PM3394B is a 200 MHz, 4-channel CombiScope that combines an analog real-time oscilloscope with a full digital storage oscilloscope. A single button switches between analog and digital modes so complex modulated/video signals can be viewed in analog mode while single-shot, low-rep-rate, and automatic measurements use digital mode. Alias: PM3394B; Fluke PM 3394B; PM3394B-083 Analog bandwidth: 200 MHz (BNC, 50 ohm; ambient 5-40 degC >200 MHz) Equivalent-time sample rate (repetitive): up to 25 GS/s Dynamic range to 50 MHz: +/-12 div symmetrical class



MODEL

Fluke PM3394B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM 3394B

LISTING

<https://aumictechlabs.com/products/pm-3394b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke PM 3394B Autoranging CombiScope integrates digital storage oscilloscope (DSO) and real-time analog oscilloscope functionality in a single four-channel instrument. It delivers 200 MHz bandwidth across analog and digital domains, with sampling rates up to 200 MS/s in single-channel real-time mode and 25 GS/s equivalent sampling for repetitive signals. The autoranging architecture automatically optimizes horizontal and vertical settings, while the color CRT display with cursor measurement capabilities supports vertical, horizontal, dT, frequency, ratio, and

phase analysis. Mathematical functions include add, subtract, multiply, divide, and FFT, enabling comprehensive signal characterization across troubleshooting, field service, and laboratory environments.

Technical Specifications

Bandwidth: 200 MHz analog and digital; 20 MHz bandwidth limiter @ -3 dB

Channels: 4 analog channels

Sampling Rate: 200 MS/s single-channel real-time; 100 MS/s dual-channel; 25 GS/s equivalent (repetitive)

Memory: 2 CH × 16K acquisition memory

Vertical Sensitivity: 2 mV/div to 5 V/div (1-2-5 sequence); vernier range 2 mV/div to 12.5 V/div

Input Impedance: 1 MΩ ± 1% // 25 pF + 2 pF, or user-selectable 50 Ω ± 1%

Dynamic Range: 100:1 @ 1 MHz; 25:1 @ 50 MHz

Sweep Speed: 0.5 s/div to 20 ns/div (main timebase); 2 ns/div @ 10× magnification

Vertical Resolution: 8 bits

Trigger Sensitivity: 0.5 div; modes include auto, normal, single, external, edge, and TV (NTSC/PAL/SECAM/HDTV)

Input Voltage Ratings: 1 MΩ position ±150 VRMS CAT II; 50 Ω position DC ±5 V / RMS 5 V / AC peak ±50 V

Power Supply: 100–240 VAC, 50/60 Hz

Key Features

Dual-mode oscilloscope architecture: analog real-time + digital storage

Autoranging and autocalibration

Color CRT with screen readout

Cursor measurements: vertical, horizontal, dT, 1/dT (Hz), ratio, phase

Delayed timebase: 0.5 ms/div to 20 ns/div

Trigger coupling options: DC, AC (<10 Hz), LF-reject (30 kHz), HF-reject (30 kHz)

Typical Applications

Electronics troubleshooting and diagnosis

Signal integrity analysis

Field service and maintenance

Educational laboratory work

Compatibility & Integration

Standard Interface: RS-232

Optional Interface: GPIB / IEEE-488.2

Features & description

From manufacturer datasheet

Features

- True analog + DSO CombiScope architecture
 - Four full-featured channels
 - Autoranging acquisition aids
 - 20 MHz bandwidth limiter
 - Family remote/measurement feature set
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Applications

- Analog real-time viewing of complex/modulated signals
- Digital storage capture of single-shot events
- Four-channel mixed-signal bench troubleshooting
- Automatic measurements in digital mode

PM3394B Characteristics / Specifications

PARAMETER	VALUE
Model	PM3394B
Manufacturer	Fluke / Philips
Instrument Type	Analog real-time + digital storage combination
Alias	PM3394B; Fluke PM 3394B; PM3394B-083
Analog bandwidth	200 MHz (BNC, 50 ohm; ambient 5-40 degC >200 MHz)
Channels	4
Bandwidth limiter	20 MHz
AC coupling lower transition	<10 Hz
Dynamic range to 50 MHz	+/-12 div symmetrical class
Dynamic range to 200 MHz	+/-4 div symmetrical class
Family siblings	PM3390B (2ch/200 MHz), PM3384B/3380B (100 MHz), PM3370B (60 MHz) Notes Specs from Fluke CombiScope service/reference literature for PM3394B. Confirm installed options (e.g. -083) on the unit.
Bandwidth	limiter - Family remote/measurement feature set

PM3394B Specifications

PARAMETER	VALUE
Fluke PM3394B Autoranging CombiScope	Overview
Technical Specifications	Model: PM3394B
Notes	Specs from Fluke CombiScope service/reference literature for PM3394B. Confirm installed options (e.g. -083) on the unit.

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

Specifications

PARAMETER	VALUE
Model	PM3394B
Manufacturer	Fluke / Philips
Instrument Type	Autoranging CombiScope
Alias	PM3394B; Fluke PM 3394B; PM3394B-083

Analog bandwidth: 200 MHz (BNC, 50 ohm; ambient 5-40 degC >200 MHz)
Bandwidth at 0-50 degC: >175 MHz
Channels: 4
Max single-shot sample rate: 200 MS/s
Equivalent-time sample rate (repetitive): up to 25 GS/s

Specifications

PARAMETER	VALUE
Bandwidth limiter	20 MHz
AC coupling lower transition	<10 Hz
Dynamic range to 50 MHz	+/-12 div symmetrical class
Dynamic range to 200 MHz	+/-4 div symmetrical class
Instrument type	Analog real-time + digital storage combination
Family siblings	PM3390B (2ch/200 MHz), PM3384B/3380B (100 MHz), PM3370B (60 MHz)

Notes

Specs from Fluke CombiScope service/reference literature for PM3394B. Confirm installed options (e.g. -083) on the unit.

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

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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.