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Data Sheet

August 13, 2026

FLUKE

Fluke PM 6690 Frequency Timer/Counter/Analyzer

Fluke PM6690 Frequency Timer/Counter/Analyzer The Fluke/Philips PM6690 is a high-resolution frequency timer/counter/analyzer for precision frequency, period, and time-interval measurements. It is used in RF and timing metrology applications requiring high resolution and stability. The Fluke/Philips PM6690 is a high-resolution frequency timer/counter/analyzer for precision frequency, period, and time-interval measurements. It is used in RF and timing metrology applications requiring high resolution and stability.



MODEL Fluke PM 6690	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU PM 6690	LISTING https://aumictechlabs.com/products/pm-6690-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke PM6690 is a benchtop frequency timer/counter/analyzer delivering 12-digit frequency resolution and 100 ps single-shot time interval measurement. It combines high-speed data acquisition - up to 250k measurements/second to internal memory - with powerful analysis tools including statistical analysis, TrendPlot, and Histogram display for comprehensive signal characterization. Technical Specifications Frequency Measurement Resolution: 12 digits/second; graphical display to 14 digits Standard range: 300 MHz Optional RF prescaler inputs: 3 GHz or 8 GHz Time Interval & Phase Single-shot time resolution: 100 ps Zero dead-time technique: up to

250k measurements/second Phase resolution: 0.001° SMART Time Interval with automatic start/stop detection Additional Measurements Period, ratio, rise/fall time, duty factor, pulse width, voltage, and burst frequency Trigger levels: 10% and 90% of signal amplitude, or manual (% of amplitude or volts) Minimum pulse width: 1.6 ns Data Handling Internal memory: 750,000 measurements GPIB throughput: up to 2000 measurements/second Statistical analysis with limit qualifying and auxiliary readings (Vmax, Vmin, Vp-p) Modulation Domain Analysis available with TimeView 90W software Environmental Operating temperature: 0°C to +50°C Power consumption: approximately 20W (without OCXO option)Key Features True phase and duty cycle via single-pass measurement technique Zero dead-time acquisition eliminates measurement gaps 750k internal memory for high-volume data capture USB 2.0 Full Speed (11 Mbit/s) and GPIB interfacesTypical Applications Telecommunications, research and development, electronics manufacturing, and calibration laboratories.Compatibility & Integration The PM6690 emulates Agilent/HP 53131A or 53132A behavior for legacy system integration. It supports native SCPI bus mode and full IEEE 488.2-1987 compliance with interface functions SH1, AH1, T6, L4, SR1, RL1, DC1, DT1, and E2.

Features & description

From manufacturer datasheet

Features

• Frequency timer/counter/analyzer class instrument • High-resolution measurements • Fluke/Philips PM counter family

Applications

• Precision frequency and period measurement • Time-interval and timer analysis • RF and clock metrology

PM6690 Characteristics / Specifications

PARAMETER	VALUE
Model	PM6690
Manufacturer	Fluke
Instrument Type	Frequency timer/counter/analyzer Notes Confirm frequency range, resolution, channel count, and timebase options from the PM6690 datasheet/faceplate.
Alias	PM6690; Fluke PM6690; Philips PM6690

PM6690 Specifications

PARAMETER	VALUE
Fluke PM6690 Frequency Timer/Counter/Analyzer	Overview
Technical Specifications	Model: PM6690
Notes	Confirm frequency range, resolution, channel count, and timebase options from the PM6690 datasheet/faceplate.

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	PM6690
Manufacturer	Fluke
Instrument Type	Frequency Timer/Counter/Analyzer
Alias	PM6690; Fluke PM6690; Philips PM6690

Instrument type: Frequency timer/counter/analyzer

Notes

Confirm frequency range, resolution, channel count, and timebase options from the PM6690 datasheet/faceplate.

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.