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Data Sheet

August 14, 2026

FLUKE

Fluke PM6304/043 Programmable Automatic RCL Meter (w/o GPIB or RS232)

The Fluke PM6304/043 is a programmable automatic RCL meter designed for precision measurement of resistance, capacitance, and inductance in passive component analysis. This model excludes GPIB and RS232 interfaces, delivering core measurement functionality with four-wire measurement topology for enhanced accuracy. The instrument provides auto-ranging and auto-function operation across a broad range of test frequencies and measurement parameters, supporting both series and parallel equivalent circuit configurations with real-time parameter display. Current Monitor (Ix): 0.005 μ A to 10.0 mA; 0.001 μ A resolution
Accuracy & Frequency AC test levels: 50 mV, 1 V, and 2 V rms (50 mV via 100 Ω ; 1 V via 100 Ω ; 2 V via 400 Ω) Auto Mode displays dominant and secondary parameters with equivalent circuit symbol



MODEL

**Fluke
PM6304/043**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM6304/043

LISTING

<https://aumictechlabs.com/products/pm6304-043-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke PM6304/043 is a programmable automatic RCL meter designed for precision measurement of resistance, capacitance, and inductance in passive component analysis. This model excludes GPIB and RS232 interfaces, delivering core measurement functionality with four-

wire measurement topology for enhanced accuracy. The instrument provides auto-ranging and auto-function operation across a broad range of test frequencies and measurement parameters, supporting both series and parallel equivalent circuit configurations with real-time parameter display.

Technical Specifications

Measurement Ranges & Resolution

Impedance (Z) / AC Resistance (RAC): 0.0000 Ω to 200 M Ω ; 0.1 m Ω resolution DC Resistance (RDC): 0.0000 Ω to 50 M Ω ; 0.1 m Ω resolution Capacitance (C): 0.00 pF to 31.8 F; 0.01 pF resolution Inductance (L): 0.00 μ H to 637 kH; 0.01 μ H resolution Quality Factor (Q): 0.000 to 1000; 0.001 resolution Dissipation Factor (D): 0.000 to 1000; 0.001 resolution Phase Angle (ϕ): -179° to $+180^\circ$; 0.1 $^\circ$ resolution Voltage Monitor (Vx): 0.1 μ V to 2.00 V; 0.1 μ V resolution Current Monitor (Ix): 0.005 μ A to 10.0 mA; 0.001 μ A resolution Accuracy & Frequency Basic measurement accuracy: 0.1% $\pm$ 1 digit Test frequencies: 50 Hz to 100 kHz with 204 selectable points AC test levels: 50 mV, 1 V, and 2 V rms (50 mV via 100 Ω ; 1 V via 100 Ω ; 2 V via 400 Ω) DC bias: 0 to 2 V internal; 0 to 40 V external Power Supply Selectable line voltages: 100 V, 120 V, 220 V, and 240 V

AC Key Features

Four-wire measurement system for reduced lead inductance effects Auto Mode displays dominant and secondary parameters with equivalent circuit symbol Manual Mode supports selectable series or parallel equivalent circuit representations Seven equivalent circuit diagram options Exponential averaging in continuous measurement mode Deviation Mode for relative range measurement (-100% to $+100\%$) Surface-mount component (SMD) test accessories available

Typical Applications

Component characterization and quality verification for passive elements including resistors, capacitors, and inductors across audio through radiofrequency test bands.

Compatibility & Integration

This model operates as a standalone instrument without network connectivity. SMD measurement adapters such as the PM 9540/TWE tweezers expand measurement capabilities to surface-mounted devices.

PM6304043 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke Philips PM6304
Test Frequency Spot	50 60 100 120 Hz
Test Frequency Stepped Low	200 Hz to 20 kHz in 100 Hz steps
Test Frequency High Spot	100 kHz
Test Frequency Accuracy	0.01 percent
Test Signal Level 50 mV	via 100 Ohm
Test Signal Level 1 V	via 100 Ohm
Test Signal Level 2 V	via 400 Ohm
Basic Accuracy Normal Mode Less Equal 20 kHz	0.1 percent plus or minus 1 digit
Basic Accuracy At 100 kHz	0.4 percent plus or minus 1 digit
Basic Accuracy 50 mV Less Equal 20 kHz	0.5 percent plus or minus 1 digit
Internal DC Bias	2 V
External DC Bias	0 to 40 V
Impedance Resistance AC Max	0.0000 Ohm to 200 MOhm
Capacitance Max	0.00 pF to 31.8 F
Inductance Max	0.00 uH to 637 kH
Quality Factor Range	0.000 to 1000
Dissipation Factor Range	0.000 to 1000
Phase Angle Range	minus 179 to plus 180 deg
Maximum Resolution Impedance	0.1 mOhm
Maximum Resolution Capacitance	0.01 pF
Maximum Resolution Inductance	0.01 uH
Continuous Measurement Rate	2 measurements/s
Fast Measurement Rate Max	10 measurements/s
Stored Front Panel Settings	9 plus 1

PARAMETER	VALUE
Dimensions WxHxD	315 × 105 × 405 mm
Weight	4.7 kg
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to 70 C
Power Consumption	31 VA
Warm Up Time	5 minutes
Line Voltage	100/120/220/240 V plus or minus 10 percent 50/60 Hz
Safety	EN61010-1 CAT II Pollution Degree 2

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Power Consumption	31 VA
Warm Up Time	5 minutes
Line Voltage	100/120/220/240 V plus or minus 10 percent 50/60 Hz
Safety	EN61010-1 CAT II Pollution Degree 2 Notes From Fluke/Philips PM 6306 / PM 6304 / PM 6303A Versatile Automatic RCL Meters technical specifications brochure. PM6304C basic accuracy 0.05 percent applies only to that variant at less than or equal to 2 kHz; confirmCsuffix and installed interface options on the 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 list test frequencies from 50 Hz to 100 kHz, basic accuracy 0.1 percent (0.05 percent for PM6304C at low frequency), AC test levels 50 mV / 1 V / 2 V, measuring ranges to 200 MOhm 31.8 F and 637 kH, and optional IEEE-488 RS-232 DC-test and handler interfaces.

Applications

Incoming inspection and production sorting of passive components, RCL characterization versus frequency, automated binning via handler interface, and laboratory component evaluation with four-wire Kelvin fixtures.

Key Features

Auto function and autoranging four-wire measurements
Actual component test voltage and current readback
Automatic zero trimming open and short compensation
Nine front panel setups with non-volatile memory
Optional IEEE-488 RS-232 DC test and handler interfaces

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Family	Fluke Philips PM6304
Test Frequency Spot	50 60 100 120 Hz
Test Frequency Stepped Low	200 Hz to 20 kHz in 100 Hz steps
Test Frequency High Spot	100 kHz
Test Frequency Accuracy	0.01 percent
Test Signal Level 50 mV	via 100 Ohm
Test Signal Level 1 V	via 100 Ohm
Test Signal Level 2 V	via 400 Ohm

Basic Accuracy Normal Mode Less Equal 20 kHz: 0.1 percent plus or minus 1 digit
Basic Accuracy At 100 kHz: 0.4 percent plus or minus 1 digit
Basic Accuracy 50 mV Less Equal 20 kHz: 0.5 percent plus or minus 1 digit

Specifications

PARAMETER	VALUE
Internal DC Bias	2 V
External DC Bias	0 to 40 V
Impedance Resistance AC Max	0.0000 Ohm to 200 MOhm
Capacitance Max	0.00 pF to 31.8 F
Inductance Max	0.00 uH to 637 kH
Quality Factor Range	0.000 to 1000

PARAMETER	VALUE
Dissipation Factor Range	0.000 to 1000
Phase Angle Range	minus 179 to plus 180 deg
Maximum Resolution Impedance	0.1 mOhm
Maximum Resolution Capacitance	0.01 pF
Maximum Resolution Inductance	0.01 uH
Continuous Measurement Rate	2 measurements/s
Fast Measurement Rate Max	10 measurements/s
Stored Front Panel Settings	9 plus 1
Dimensions WxHxD	315 x 105 x 405 mm
Weight	4.7 kg
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to 70 C
Power Consumption	31 VA
Warm Up Time	5 minutes
Line Voltage	100/120/220/240 V plus or minus 10 percent 50/60 Hz
Safety	EN61010-1 CAT II Pollution Degree 2

Notes

From Fluke/Philips PM 6306 / PM 6304 / PM 6303A Versatile Automatic RCL Meters technical specifications brochure. PM6304C basic accuracy 0.05 percent applies only to that variant at less than or equal to 2 kHz; confirmCsuffix and installed interface options on the 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.