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Data Sheet

August 13, 2026

FLUKE

Fluke PM6304/023 Programmable Automatic RCL Meter

The Fluke PM6304/023 is a programmable automatic RCL meter for precision measurement of resistance, capacitance, inductance, and derived parameters including quality factor, dissipation factor, and phase angle. The instrument delivers 0.1% basic accuracy across selectable test frequencies from 50 Hz to 100 kHz and three standard voltage levels. Four-wire Kelvin connection ensures measurement integrity across impedance ranges extending from 0.0000 Ω to 200 M Ω (AC) and capacitance from 0.00 pF to 31.8 F. A large five-digit LCD updates at approximately two measurements per second and displays numerical values with dimension units and equivalent circuit symbols. Autoranging streamlines operation, while selectable series or parallel equivalent circuit representation accommodates different analytical requirements. Internal DC bias extends to 2 Vdc; external bias reaches 40 Vdc. Optional RS-232



MODEL

**Fluke
PM6304/023**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM6304/023

LISTING

<https://aumictechlabs.com/products/pm6304-023-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke PM6304/023 is a programmable automatic RCL meter for precision measurement of resistance, capacitance, inductance, and derived parameters including quality factor, dissipation

factor, and phase angle. The instrument delivers 0.1% basic accuracy across selectable test frequencies from 50 Hz to 100 kHz and three standard voltage levels. Four-wire Kelvin connection ensures measurement integrity across impedance ranges extending from 0.0000 Ω to 200 M Ω (AC) and capacitance from 0.00 pF to 31.8 F. A large five-digit LCD updates at approximately two measurements per second and displays numerical values with dimension units and equivalent circuit symbols. Autoranging streamlines operation, while selectable series or parallel equivalent circuit representation accommodates different analytical requirements. Internal DC bias extends to 2 Vdc; external bias reaches 40 Vdc. Optional RS-232 and IEEE-488 interfaces enable automated testing and data logging in production and quality control environments. The unit operates from 100 V, 120 V, 220 V, or 240 V AC $\pm$ 10% at 50/60 Hz, consuming 31 VA with a 5-minute warm-up interval.

Technical Specifications

Measurement parameters: Resistance (R), Capacitance (C), Inductance (L), Quality Factor (Q), Dissipation Factor (D), Phase Angle, Component Voltage (Vx), Component Current (Ix)

Basic accuracy: 0.1% for PM6304; 0.05% for PM6304C up to 2 kHz

Test frequencies: 50 Hz to 100 kHz (selectable)

Test voltages: 50 mVrms, 1 Vrms, 2 Vrms

Test signal: AC with optional DC bias (2 Vdc internal, up to 40 Vdc external)

Impedance/Resistance AC range: 0.0000 Ω to 200 M Ω (0.1 m Ω resolution)

Capacitance range: 0.00 pF to 31.8 F (0.01 pF resolution)

Inductance range: 0.00 μ H to 637 kH (0.01 μ H resolution)

Phase Angle range: -179° to $+180^\circ$

Voltage Monitor (Vx): 0.1 μ V to 2.00 V

Current Monitor (Ix): 0.005 μ A to 10.0 mA

Key Features

- Four-wire Kelvin measurement system for enhanced accuracy
- Large five-digit LCD display with approximately two measurements per second
- Auto-function and autoranging capabilities
- Selectable series or parallel equivalent circuit display

Dimensions: 315 × 105 × 405 mm; **Weight:** 4.7 kg

Power consumption: 31 VA; **Warm-up time:** 5 minutes

Typical Applications

- Component testing and characterization across wide frequency and voltage ranges
- Quality control and production validation
- RCL parameter verification in automated test environments

Compatibility & Integration

- Front panel test posts (standard)
- RS-232 interface available (PM 9549) for PC control and printer output
- IEEE-488 interface available (PM 9548) for automated component test systems

Features & description

From manufacturer datasheet

Features

- Auto function and autoranging with seven equivalent-circuit diagrams • Test frequencies 50 Hz to 100 kHz; levels 50 mV / 1 V / 2 V • Nine nonvolatile front-panel setups; binning 9 bins plus fail • Optional DC test (PM9565); handler interface (PM9566) • /023 equals IEEE-488 plus 120 V North American cord

PM6304023 Characteristics / Specifications

PARAMETER	VALUE
Model	PM6304/023
Manufacturer	Fluke
Instrument Type	Programmable automatic RCL meter
Alias	Fluke PM6304; PM 6304; PM6304/023
Basic Measurement Accuracy	0.1 percent plus/minus 1 digit (less than or equal to 20 kHz)
Basic Accuracy At 100 kHz	0.4 percent plus/minus 1 digit
Basic Accuracy At 50 mV Less Equal 20 kHz	0.5 percent plus/minus 1 digit
Basic Accuracy At 50 mV 100 kHz	2.0 percent plus/minus 1 digit
Test Frequencies Fixed	50; 60; 100; 120 Hz
Test Frequencies Stepped	200 Hz to 20 kHz in 100 Hz steps
Test Frequency Upper	100 kHz
Test Frequency Accuracy	0.01 percent
Test Level 50 mV	via 100 ohm
Test Level 1 V	via 100 ohm
Test Level 2 V	via 400 ohm
Internal DC Bias	2 V
External DC Bias	0 to 40 VZOr RAC Range: 0.0000 ohm to 200 M ohm
Capacitance Range	0.00 pF to 31.8 F
Inductance Range	0.00 uH to 637 kH
Quality Factor Range	0.000 to 1000
Dissipation Factor Range	0.000 to 1000
Phase Angle Range	-179 to +180 deg
Voltage Monitor Range	0.1 uV to 2.00 V
Current Monitor Range	0.005 uA to 10.0 mA
Maximum Resolution Z	0.1 m ohm

PARAMETER	VALUE
Maximum Resolution C	0.01 pF
Maximum Resolution L	0.01 uH
Normal Mode Speed	2 measurements/s
Fast Mode Speed	10 measurements/s
Open Circuit Trim	Z greater than 100 k ohm
Short Circuit Trim	Z less than 10 ohm
Stored Front Panel Settings	9 plus 1
Bin Settings Stored	9 plus 1
Operating Temperature	0 C to 50 C
Storage Temperature	-40 C to 70 C
Mains	100/120/220/240 V plus/minus 10 percent; 50/60 Hz
Power Consumption	31 VA
Warmup Time	5 minutes
Size	315 mmWx 105 mmHx 405 mmDNet Weight: 4.7 kg (10.4 lb)
IEEE 488 Functions With PM95	AH1 L3 RL1 SR1 SH1 T6
Configuration /0	IEEE-488 interface; North American 120 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Mains	100/120/220/240 V plus/minus 10 percent; 50/60 Hz
Power Consumption	31 VA
Warmup Time	5 minutes
Size	315 mmWx 105 mmHx 405 mmDNet Weight: 4.7 kg (10.4 lb)
IEEE 488 Functions With PM95	AH1 L3 RL1 SR1 SH1 T6
Configuration /0	IEEE-488 interface; North American 120 V Notes Specs from Fluke PM6306/PM6304/PM6303A technical specifications. /023 is IEEE-488 with 120 V North American line cord per Fluke ordering digit n=3. Confirm installed options (DC test, handler) 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
Basic Accuracy At 50 mV 100 kHz	2.0 percent plus/minus 1 digit
Test Frequencies Fixed	50; 60; 100; 120 Hz
Test Frequencies Stepped	200 Hz to 20 kHz in 100 Hz steps
Test Frequency Upper	100 kHz
Test Frequency Accuracy	0.01 percent
Test Level 50 mV	via 100 ohm
Test Level 1 V	via 100 ohm
Test Level 2 V	via 400 ohm
Internal DC Bias	2 V
External DC Bias	0 to 40 V
Z Or RAC Range	0.0000 ohm to 200 M ohm
Capacitance Range	0.00 pF to 31.8 F
Inductance Range	0.00 uH to 637 kH
Quality Factor Range	0.000 to 1000
Dissipation Factor Range	0.000 to 1000
Phase Angle Range	-179 to +180 deg
Voltage Monitor Range	0.1 uV to 2.00 V
Current Monitor Range	0.005 uA to 10.0 mA
Maximum Resolution Z	0.1 m ohm
Maximum Resolution C	0.01 pF
Maximum Resolution L	0.01 uH
Normal Mode Speed	2 measurements/s
Fast Mode Speed	10 measurements/s
Open Circuit Trim	Z greater than 100 k ohm
Short Circuit Trim	Z less than 10 ohm
Stored Front Panel Settings	9 plus 1

PARAMETER	VALUE
Bin Settings Stored	9 plus 1
Operating Temperature	0 C to 50 C
Storage Temperature	-40 C to 70 C
Mains	100/120/220/240 V plus/minus 10 percent; 50/60 Hz
Power Consumption	31 VA
Warmup Time	5 minutes
Size	315 mm W x 105 mm H x 405 mm D
Net Weight	4.7 kg (10.4 lb)
IEEE 488 Functions With PM9548	AH1 L3 RL1 SR1 SH1 T6
Configuration /023	IEEE-488 interface; North American 120 V

Specifications

PARAMETER	VALUE
Model	PM6304/023
Manufacturer	Fluke
Instrument Type	Programmable automatic RCL meter
Alias	Fluke PM6304; PM 6304; PM6304/023
Basic Measurement Accuracy	0.1 percent plus/minus 1 digit (less than or equal to 20 kHz)
Basic Accuracy At 100 kHz	0.4 percent plus/minus 1 digit

Basic Accuracy At 50 mV Less Equal 20 kHz: 0.5 percent plus/minus 1 digit

Specifications

PARAMETER	VALUE
Basic Accuracy At 50 mV 100 kHz	2.0 percent plus/minus 1 digit
Test Frequencies Fixed	50; 60; 100; 120 Hz
Test Frequencies Stepped	200 Hz to 20 kHz in 100 Hz steps
Test Frequency Upper	100 kHz
Test Frequency Accuracy	0.01 percent
Test Level 50 mV	via 100 ohm
Test Level 1 V	via 100 ohm
Test Level 2 V	via 400 ohm
Internal DC Bias	2 V
External DC Bias	0 to 40 VZ0r RAC Range: 0.0000 ohm to 200 M ohm

PARAMETER	VALUE
Capacitance Range	0.00 pF to 31.8 F
Inductance Range	0.00 uH to 637 kH
Quality Factor Range	0.000 to 1000
Dissipation Factor Range	0.000 to 1000
Phase Angle Range	-179 to +180 deg
Voltage Monitor Range	0.1 uV to 2.00 V
Current Monitor Range	0.005 uA to 10.0 mA
Maximum Resolution Z	0.1 m ohm
Maximum Resolution C	0.01 pF
Maximum Resolution L	0.01 uH
Normal Mode Speed	2 measurements/s
Fast Mode Speed	10 measurements/s
Open Circuit Trim	Z greater than 100 k ohm
Short Circuit Trim	Z less than 10 ohm
Stored Front Panel Settings	9 plus 1
Bin Settings Stored	9 plus 1
Operating Temperature	0 C to 50 C
Storage Temperature	-40 C to 70 C
Mains	100/120/220/240 V plus/minus 10 percent; 50/60 Hz
Power Consumption	31 VA
Warmup Time	5 minutes
Size	315 mmWx 105 mmHx 405 mmDNet Weight: 4.7 kg (10.4 lb)
IEEE 488 Functions With PM9548	AH1 L3 RL1 SR1 SH1 T6
Configuration /023	IEEE-488 interface; North American 120 V

Notes

Specs from Fluke PM6306/PM6304/PM6303A technical specifications. /023 is IEEE-488 with 120 V North American line cord per Fluke ordering digit n=3. Confirm installed options (DC test, handler) 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.