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PM 6303A RCL Meter

Highlights

Effective, economic testing that's quick and easy to use

The PM 6303A is quick and simple to operate, on the manufacturing floor as a quality assurance tool or in the service lab for quick tests of a wide variety of components. Its simple operation and 0.25% basic accuracy make the PM 6303A equally at home in the classroom for education and training environments.

- 0.25% basic accuracy
- 2V dc internal bias
- Automatic zero trimming
- Front-panel test posts for immediate 4-wire measurements

Description

Easy-to-use, at-a-glance display of relevant information
The PM 6303A is the fast and simple way to get information about the value and electrical characteristics of any component. Just connect the component and read-out the value, the units and the equivalent circuit diagram from the large, backlit LCD display. This versatile meter gives you 9 specific parameter tests, with switchable dc bias for components that need it. At the push of a button you can select series or parallel resistance, capacitance, inductance, impedance, Q (quality) and D (dissipation) factors, and phase angle.

Quick and simple component connection
Connection of test components is quick and simple; either directly to the detachable test posts which are conveniently located on the front panel, or using the PM 9542A universal test adapter. The optional PM 9541A test cable with Kelvin clips provides a unique solution for flexible attachment to mounted components while retaining the extra accuracy of the 4-wire measurement principle.

The PM 6303A also handles surface-mount devices (SMDs) quickly and efficiently, using the optional SMD accessories. All measurements are made using a 4-wire technique, which ensures high-accuracy measurements, even for low-impedance components.

Easy operation
Thanks to its easy operation, the PM 6303A is the ideal choice for general-purpose component testing in service and troubleshooting, component identification in the lab, quality control, batch sampling and incoming inspection, to name just a few. Its clear, simple operation and quick results display make it equally ideal for education and training.

Specifications

Technical Specifications	
AC test mode	**Test frequency:** 1 kHz **Test frequency accuracy:** 0.025% **Test signal level:** 2V via 400Ω source **Basic measurement accuracy:** 0.25% ± 1 digit
DC bias	**Internal:** 2V
Maximum measurement ranges	**Impedance/Resistance Z or RAC:** 0.000Ω to 200 MΩ **Capacitance C:** 0.0 pF to 100 mF **Inductance L:** 0.0 mH to 32 kH **Quality factor Q:** : 0.0002 to 500 **Dissipation factor D:** 0.002 to 500 **Phase angle F:** -90.0 to +90.0 deg
Maximum resolution	**Impedance/Resistance Z or RAC:** 01 MΩ **Capacitance C:** 0.1 pF **Inductance L:** 0.1 mH **Quality factor Q:** 0.001

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	Dissipation factor D: 0.001 **Phase angle F:** 0.1 deg
Circuit diagram	7 different equivalent circuit diagrams
Auto mode	**Read-out:** Dominant parameter **Equivalent circuit diagram:** Parallel for R+C Serial for R+L
Manual Mode	**Read-out:** Dominant or secondary parameter **Equivalent circuit diagram:** Parallel or serial selectable
Measurement update rate	2 measurements/s
Trim function	**Open circuit:** Open circuit compensation Z > 100 kΩ **Short circuit:** Short circuit compensation Z < 10Ω
Stored settings (non-volatile memory)	**Front panel settings:** 1 (trim figures included)
Calibration Interval	1 year
Environmental Conditions	**Operating temperature:** 0°C to 50°C **Storage temperature:** -40°C to 70°C **Power requirements:** 100/120/220/240V ± 10% **Line frequency:** 50 to 100 Hz **Power consumption:** 16 VA **Safety:** According to CE-regulation 73/23 EN61010-1 CAT II, Pollution Degree 2 **EMC:** According to CE regulation 89/336: Emission according to EN 55011, Group 1 Class B, respectively CISPR 11. Immunity according to EN 50082-1, inclusive IEC 801-2, -3, -4 **Warm-up time:** 5 minutes
Dimensions and weight	**W x H x D:** 315 x 105 x 401 mm (12.4 in x 4.13 in x 15.9 in) **Weight:** 3.8 kg (8.4 lb)

Models and Accessories

Model Name	Description
PM 6303A	Automatic RCL Meter* * Instrument optional configuration. When Ordering optional configurations, select one of the basic model numbers and add one of the option configuration codes as a suffix. All options are factory installed only. The n indicates the required line cord. To select your line cord substitute then by: • n=1. Universal Euro 220V/16A, 50 Hz • n=3. Standard North American 120V/15A, 60Hz • n=4. UK 240V/13A, 50Hz • n=5. Switzerland 220V/16A, 50 Hz • n=8. Australia 240V/10A, 50 Hz

Accessories common to all models:

Accessory	Description
PM9540/BAN	4-Wire Test Cable with banana plugs; DUT connection: 4 banana plugs, Cable length: 1000 mm, Weight: 0.16 kg, This cable set ensures optimum calibrator contact or connection to other instruments or accessories.
PM9540/TWE	PM 9540/TWE SMD Tweezers

PM9541B	4-Wire Test Cable Set with Kelvin Clips; DUT connection: 2 Kelvin Clips (strong grip), Cable length: 1000 mm
PM9542A	Universal test adapter.
PM9542SMD	4-Wire SMD Adapter for PM 9542A; DUT connection: Kelvin Contacts in test posts, DUT length: min 2 mm, max 10 mm, DUT width: min 1 mm, DUT height: min 0.5 mm, Dimensions (WxHxD): 55 x 45 x 30 mm (2.2 in x 1.8 in x 1.2 in)
PM9548	IEEE-488 Interface With this IEE-488 interface, the PM 6306 or PM 6304 RCL meter can be used as part of a fully automated component test environment for applications at up to 10 measurements/s.
PM9549	RS-232 Interface
PM9559	Infrared Bin Programmer (PM 6304 only) Distance: < 1.5m Compact handheld unit that programs the PM 6304's component sorting function.
PM9565	DC Test Measurement
PM9536/041	3 m RS-232 cable
ComponentView	Software For Microsoft Windows®





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Source URL: http://as.flukecal.com/products/data-acquisition-and-test-equipment/rcl-meters/pm-6303a-rcl-meter

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