

	PM 6306	PM 6304
AC Test mode		
Test frequency	50, 60, 100, 120 Hz 200 Hz to 100 kHz (100 Hz steps) 100 kHz to 1 MHz (1 kHz steps)	50, 60, 100, 120 Hz 200 Hz to 20 kHz (100 Hz steps) 100 kHz
Test frequency accuracy	0.01%	0.01%
Test signal levels	50 mV to 2V (10 mV steps) via 100Ω	50 mV via 100Ω 1V via 100Ω 2V via 400Ω
Basic measurement accuracy at normal measurement mode	0.1% ± 1 digit (for ≥ 0.25V, ≤ 50 kHz) 0.1% * (f / 50 kHz) ± 1 digit (for ≥ 0.25V, > 50 kHz) 0.1% * (0.25V/V _r) ± 1 digit (for < 0.25 V, ≤ 50 kHz)	0.05% ± 1 digit (for PM 6304C, ≤ 2 kHz) 0.1% ± 1 digit (for ≤ 20 kHz) 0.4% ± 1 digit (100 kHz) 0.5% ± 1 digit (for 50 mV, ≤ 20 kHz) 2.0% ± 1 digit (for 50 mV, 100 kHz)
DC bias		
Internal	0 to 10V (0.1V steps)	2V
External	0 to 40V	0 to 40V
DC Test mode (Optional)		
Test signal levels	50 mV to 2 V (10 mV steps) via 100Ω	300 mV via 100Ω 1 V via 100Ω 2 V via 400Ω
Basic measurement accuracy at normal measurement mode	0.1% ± 1 digit (for ≥ 0.25V)	0.1% ± 1 digit (for 1V)
Contact check (PM 6306 only)		
Pass	< 3Ω	-
Fail	≥ 3Ω [with indication of failed connection lead]	-
Maximum measuring ranges		
Impedance / Resistance AC Z or R _{AC}		0.0000Ω to 200 MΩ
Resistance DC R _{DC}		0.0000Ω to 50 MΩ
Capacitance C		0.00 pF to 31.8P
Inductance L		0.00 μH to 637 kH
Quality factor Q		0.000 to 1000
Dissipation factor D		0.000 to 1000
Phase angle φ		-179 to +180 deg
Voltage monitor V _X		0.1 μV to 2.00V
Current monitor I _X		0.005 μA to 10.0 mA
Maximum resolution		
Impedance / Resistance AC Z or R _{AC}		0.1 mΩ
Resistance DC R _{DC}		0.1 mΩ
Capacitance C		0.01 pF
Inductance L		0.01 μH
Quality factor Q		0.001
Dissipation factor D		0.001
Phase angle φ		0.1 deg
Voltage monitor V _X		0.1 μV
Current monitor I _X		0.001 μA
Circuit diagram		
Display	1 of 7 different equivalent circuit diagrams	
Auto mode		
Read-out	Dominant and secondary parameter	
Equivalent circuit diagram	Parallel for R+C, Serial for R+L	
Manual mode		
Read-out	Dominant and secondary parameter or Z, φ, D, Q, V _X , I _X	
Equivalent circuit diagram	Parallel or serial selectable	
Average function		
Function	Exponential averaging in continuous mode	
Levels	3 (and off)	1 (and off)
Deviation mode (PM 6306 only)		
Relative range in respect	-100% to +100%	-
Measuring modes		
Normal		
Continuous	2 measurements/s	
Single	Triggered via "TRIG" key, Triggered via handler interface Triggered via IEEE-488 or RS-232	
Test frequency	50, 60, 100, 120 Hz 200 Hz to 100 kHz (100 Hz steps) 100 kHz to 1 MHz (1 kHz steps) DC (optional)	50, 60, 100, 120 Hz 200 Hz to 20 kHz (100 Hz steps) 100 kHz DC (optional)
Read-out	Display or via IEEE-488 or RS-232 interface	
Fast		
Max. speed	10 measurements/s	
Test frequency	200 Hz to 100 kHz (200 Hz steps) 100 kHz to 1 MHz (1 kHz steps) DC (optional)	200 Hz to 20 kHz (200 Hz steps) 100 kHz DC (optional)
Single	Triggered via handler interface Triggered via IEEE-488 or RS-232	
Read-out	Via IEEE or RS-232 interface (display blanked)	

Options for PM 6306 and PM 6304

PM 9548

Control capability
Interface functions

Address range
Remote lock-out
Special functions

Signals

PM 9549

Mode
Control capability
Baud rates

Data bits
Stop bits
Parity
Xon/Xoff handshake
Hardware handshake
Signals
Connector

PM 9565

Technical specification

PM 9566

Signals
Inputs
Outputs

Max. switchable current
Max. switchable voltage

IEEE-488 interface

All functions
AHL, L3, RL1, SRL, SH1,
T6

1...30
Go to local by front
panel key "LOCAL"
Learn mode / device
identification mode
All optically isolated

RS-232 interface

Communication mode
Printing mode
All functions
110, 150, 300, 600,
1200, 2400, 4800,
9600, 19200

7 or 8
1 (2 for 110 baud only)
Odd, Even, None
On or Off
DSR/DTR and CTS/RTS
All optically isolated
9-pin D-connector,
male

DC test measurement option

See "DC test mode"

Handler interface

All optically isolated
Trigger input
Bin 0-9 indication
FAIL indication

200 mA
40V