

## Comparison of multi-function meters













	0	10 -11 - 15	7 0	0 7 0	8	
n of fault loop impedance meters	MPI-540-PV / MPI-540 / MPI-536 / MPI-535	MPI-530-IT / MPI-530	MPI-525	MPI-520	MPI-507 / MPI-506	MPI-502
Display	7" LCD touchscreen	LCD graphic	LCD graphic	LCD graphic	segmented LCD	segmented LCD
Network parameters recorder	three-phase / three-phase / - / -	single-phase	1-1	-	-	-
Autotests	√		2-4		-	-
Energy losses calculator	V/V/-/-	-	455	-	_	_
Fault loop impedance resolution $[\Omega]$	01999	01999	01999	01999	01999	01999
Maximum resolution of fault loop impedance measurement $[\Omega]$	0.001	0.001	0.01	0.01	0.01	0.01
Measurement voltages [V]	95440	95440	95440	95440	180460	180460
Resolution of fault loop impedance measurement without RCD tripping $[\Omega]$	0,01	0,01	0,01	0,01	0.01	0,01
Calculation of fault current according to rated voltage	√	<b>√</b>	√	₹	.√	√
Calculation of fault current according to measured voltage	√	√	√	√	√	-
Automatic measurement in socket	√	√	√	√	√	√
Residual current device measurements	AC, A, F, B, B+, EV	AC, A, F, B, B+	AC, A, F, B, B+	AC, A, F, B, B+	AC, A G S	AC, A G S
Automatic measurement of the full set of RCD parameters - RCD Auto	√	√ .	√-	√	√	√
Measurement of tripping current I <sub>A</sub> with rising current	10, 30, 100, 300, 500, 1000	10,30,100,300,500, 1000	10,30,100,300,500, 1000	10,30,100,300,500, 1000	10, 15, 30, 100, 300, 500	10, 30, 100, 300, 500
Simultaneous measurement of $\mathbf{I}_{\mathbf{A}}$ and $\mathbf{t}_{\mathbf{A}}$ in one RCD trip	√	√	√	√	√	<b>√</b>
Measurement of tripping time for factor of rated current	1/2, 1, 2, 5	1/2, 1, 2, 5	1/2, 1, 2, 5	1/2, 1, 2, 5	1/2, 1, 2, 5	1/2, 1, 2, 5
Measurement of touch voltage UB	√	√	√	V	√	√
Detection of L and N swapping	√.	√	√	√	√	√
Measurement of insulation resistance	√	√	√	V	√	100
Measurement voltages [V]	MPI-536   10 50, 100, 250, 500, 1000 MPI-536   1500, 2500	50, 100, 250, 500, 1000	50, 100, 250, 500, 1000, 2500	50, 100, 250, 500, 1000	100, 250, 500	-
Measuring range [0]	5G / 5G / 5G / 10G	10G	10G	3G	600M	-
Protection against appearance of voltage	√.	√	√.	√	√	22
Automatic discharging of object after measurement	√.	√	√	√	√	-
Automatic measurement of multi-core cords with AutoISO-1000C adapter	√/√/-	√-	√	√		_
Automatic measurement of multi-core cables with AutoISO-2500 adapter	-/-/√	=	V	-	-	-
Sound signalling of time intervals for characteristics	√	√.	√.	√	-	-
Calculation of absorption coefficients	T0	=-	√	-	-	-
Continuity testing with current ≥ 200mA	√	√	√	-√	✓	√
Low-voltage resistance measurement	✓-	√	√	√	✓	√
Earth resistance measurement	3p, 4p, 3p+clamps, double-clamp	3p, 4p, 3p+clamps, double-clamp	3р	3р	3p / -	-
Capability of setting limit for every function	√-	√	1-1	-	-	-
Quick check of PE connection	√	✓	✓	✓	✓	√
Voltage measurement [V]	0500	0500	0500	0500	0500	0500
Frequency measurement [Hz]	√	√	✓	√	√	√
Alternating current measurement [A]	optionally 03000	optionally 03000	1-1	optionally 0400	-	=
Power and cosp measurement	<b>V/V/-/-</b>	✓		√	-	-
Measurement of U harmonics: I up to the 40th	√/√/-/-	✓	:	:-	-	-
THD measurement for U and I	<b>V/V/-/-</b>	✓	-	-	=	
Phase sequence check [V]	95500	95500	95500	95500	100440	-
Memory (records)	unlimited	10 000 for every measurement type	990	990	990	990
Power supply	rechargeable battery	rechargeable battery / batteries	rechargeable battery / batteries	batteries / rechargeable battery	batteries / rechargeable batteries	batteries / rechargeable batter
Built-in quick charger	<b>√</b>	√	√	<b>√</b>		
Data transmission	USB, Bluetooth, Wi-Fi	USB, Bluetooth	USB	USB	Bluetooth	Bluetooth
Dimensions [mm]	288 x 223 x 75	288 x 223 x 75	288 x 223 x 75	288 x 223 x 75	220x98x58	220x98x58
Weight [kg]	2.5	2.2	2.2	2.2	0.8	0.6