

Comparison of fault loop impedance meters



	MZC-330S	MZC-320S	MZC-310S	MZC-306	MZC-304	MZC-20E	MPI-540-PV MPI-540 MPI-536 MPI-535	MPI-530-IT MPI-530	MPI-525 MPI-520	MPI-507 MPI-506 MPI-502
Rated voltage [V]	110/190 115/200 127/220 220/380 230/400 240/415 290/500 400/690	110/190 115/200 127/220 220/380 230/400 240/415 290/500	220/380 230/400	110/190 115/200 127/220 220/380 230/400 240/415 290/500 400/690	220/380 230/400 240/415	220/380 230/400 240/415	110/190 115/200 127/220 220/380 230/400 240/415	110/190 115/200 127/220 220/380 230/400 240/415	110/190 115/200 127/220 220/380 230/400 240/415	220/380 230/400 240/415
Operating voltage range [V]	100...750	100...550	187...440	100...750	180...460	180...440	95...440	95...440	95...440	180...460
Display range [Ω]	0...1999	0...1999	0...199.9	0...1999	0...1999	0...200	0...1999.9	0...1999	0...1999	0...1999
Maximum resolution [Ω]	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.01	0.01
Maximum resolution for measurement with 15 mA current [Ω]	—	—	—	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max. measurement current [A]	130/280	130/280	160/280	12.2...36.7	7.6/13.3	15.3/26.7	23/44	23/44	23/44	7.6/13.3
Measuring range according to EN 61557 [Ω]	0.0072...1999	0.0072...1999	0.0072...199.9	0.13...1999	0.13...1999	0.24...200	0.50...1999	0.13...1999	0.13...1999	0.13...1999
Display of fault loop resistance and reactance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Calculation of prospective fault current on the basis of rated voltage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Calculation of prospective fault current on the basis of measured voltage	—	—	—	—	✓	—	✓	✓	—	—
Memory (number of each type of measurement)	990	990	990	990	990	—	UNLIMITED	10 000	990	990
4-lead method	✓	✓	✓	—	—	—	—	—	—	—
Measurement of prospective touch and shock voltage	✓	✓	✓	—	—	—	—	—	—	—
Selection of test lead length	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In-socket measurement by means of adapter - plug	—	—	—	Option	✓	—	✓	✓	✓	✓
Triggering of measurements by adapter	—	—	—	Option	Option	—	✓	✓	✓	Option
Alternating voltage measurement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dimensions [mm]	390 x 308 x 172	390 x 308 x 172	295 x 222 x 95	288 x 223 x 75	220 x 98 x 58	220 x 98 x 58	288 x 223 x 75	288 x 223 x 75	288 x 223 x 75	220 x 98 x 58
Weight [kg]	6.5	6.5	2.2	2.2	0.6	0.5	2.5	2.2	2.2	0.6

