



Summary list of tests for electronic (static) meters

Test	IEC 62052 part 11	IEC 62053 part 21	EN 50470 part 1	EN 50470 part 3
Marking of the meter	5.12		5.12	
General- and mechanical requirements	5		5.1	5
Spring hammer test	5.2.2.1		5.2.2.1.	
Shock test	5.2.2.2		5.2.2.2	
Vibration test	5.2.2.3		5.2.2.3	
Protection against penetration of dust and water	5.9		5.9	
Terminal block material test	5.4		5.4	
Resistance to heat and fire	5.8		5.8	
Dry heat test	6.3.1		6.3.2.	
Cold test	6.3.2		6.3.3.	
Damp heat cyclic test	6.3.3		6.3.4.	
Solar radiation test	6.3.4		6.3.5.	
Accuracy measurement at different loads		8.1		8.1
Interpretation of test results		8.6		8.7.3.
Meter constant		8.4		8.7.10
Starting current		8.3		8.7.9.4.
Test of no load condition		8.3		8.7.9.3.
Influence of ambient temperature variation		8.2		8.7.5.2.
Auxiliary voltage variation		8.2		
Voltage variation		8.2		8.7.5.3.
Frequency variation		8.2		8.7.5.4
Magnetic induction of external origin 0,5 mT		8.2		8.7.7.11
Harmonic components		8.2		8.7.7.7.
D.C. and even harmonics		8.2		8.7.7.8.
Odd harmonics in the a.c. current circuit		8.2		8.7.7.9
Sub-harmonics in the a.c. current circuit		8.2		8.7.7.9.
Reversed phase sequence		8.2		8.7.7.3.
Voltage unbalance		8.2		8.7.7.4.
Continuous magnetic induction of external origin		8.2	7.4.11	8.7.7.10
Operation of accessories		8.2		8.7.7.13
Immunity to earth fault	7.4			8.7.7.6.
Influence of short-time overcurrents		7.2		8.7.8
Influence of self heating		7.3		8.7.7.5.
Heating	7.2		7.2.	
Power consumption		7.1		7.1
Fast transient burst test	7.5.4		7.4.7	8.7.7.14
Electrostatic discharges	7.5.2		7.4.5.	
Immunity to electromagnetic RF fields	7.5.3		7.4.6.	8.7.7.12
Immunity to RF conducted disturbances	7.5.5		7.4.8.	8.7.7.15
Radio interference suppression	7.5.8		7.4.13	
Voltage dips and short interruptions	7.1.2		7.4.4.	
Surge immunity test	7.5.6		7.4.9.	
Damped oscillatory waves immunity test	7.5.7		7.4.10	8.7.7.16
Impulse voltage test	7.3.2		7.3.3.	
A.C. voltage test	7.3.3			7.2.
Maximum Permissible Error				8.7.6
Durability				9
Reliability				10
Software and protection against corruption				11



Summary list of tests for mechanical (ferraris) meters

Test	IEC 62052 part 11	IEC 62053 part 11
Accuracy measurement at different loads		8.1
Test of no load condition		8.3
Starting current		8.3
Meter constant		8.4
Interpretation of test results		8.6
Voltage variation		8.2
Frequency variation		8.2
Reversed phase sequence		8.2
Immunity to 3 rd harmonics in the current circuit		8.2
Magnetic induction of external origin 0,5 mT		8.2
Influence of ambient temperature variation		8.2
Oblique suspension		8.2
Operation of accessories		8.2
Immunity to earth fault	7.4	
General- and mechanical requirements	5	
Spring hammer test	5.2.2.1	
Resistance to heat and fire	5.8	
Protection against penetration of dust and water	5.9	
Shock test	5.2.2.2	
Vibration test	5.2.2.3	
Terminal block material test	5.4	
Marking of the meter	5.12	
Dry heat test	6.3.1	
Cold test	6.3.2	
Damp heat cyclic test	6.3.3	
Solar radiation test	6.3.4	
Impulse voltage test	7.3.2	
A.C. voltage test	7.3.3	
Influence of self heating		7.3
Heating	7.2	
Power consumption		7.1
Influence of short-time overcurrents		7.2
Mechanical load of the register		8.2
Adjustments		9

Note: EN 50470 not yet added to this list, contains a similar testprogram.