


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 2437 Accredited to ISO/IEC 17025:2017	Yadav Measurements Private Limited Issue No: 039 Issue date: 24 December 2025	
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Testing performed at the above address only		

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2017 for testing activities in accordance with the standards listed in the schedule. This may also include tests on the same or similar product types against standards, or customer-specified methods that are not specifically listed in this Schedule, providing that:

- (1) The method or standard does not introduce new principles of measurement.
- (2) The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.

Information about flexible scopes of accreditation is available in UKAS document GEN-4 and EA document EA-2/05.



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electronic Products: Digital Electro-Mechanical Devices IT Equipment Luminaires Micro-electronic Circuits and Components Office Equipment: Electrical Printed Circuit Boards Electrical equipment for measurement, control and laboratory use Audio, Video and similar electronic apparatus Instruments: Indicating/ Recording Medical & Diagnostic Instruments Measuring Instruments – Electrical measuring transducers Flow/Gas meters	<u>1.0 EMC Tests</u>	
	1.1 Conducted Radio interference Emissions Measurement <i>Frequency Range</i> <i>0.15 MHz to 30 MHz</i> <i>0 dBµV to 137 dBµV</i>	EN 55022:2006 EN 55022:2006 +A1:2008 CISPR 22 (1997/2006/2008) CISPR 16 -2-1:2008 CISPR 16 -2-1:2014 CISPR 32 (2015) + A1 (2019) EN 55032:2015+A11:2020 EN 55011:2007 EN 55011:2009 EN 55011:2016 + A1:2016 + A11:2020 + A2:2021 CISPR 11:2004 CISPR 11:2009
	1.2 Radiated Emissions <i>Frequency Range:</i> <i>30 MHz to 2.5GHz</i> <i>quite zone 2m x 2m x 2m</i> <i>2.5GHz to 6GHz</i> <i>quite zone 1.5m x 1.5m x 1.5m</i>	EN 55011:2007 EN 55011:2009 EN 55011:2016 + A1:2016 + A11:2020 + A2:2021 CISPR 11:2004 CISPR 11:2009 CISPR 32 (2015) CISPR 16 -2-3
	1.3 Immunity to Electrostatic Discharge	IEC 61000-4-2:1995 (Withdrawn) IEC 61000-4-2 (2008) (Withdrawn) IEC 61000-4-2:2025 EN 61000-4-2 (1995/2009) (Withdrawn)
	1.4 Immunity to electromagnetic HF field <i>Frequency Range:</i> <i>80 MHz to 6 GHz</i> <i>Field strength: up to 30 V/m</i>	IEC 61000-4-3 (2002' 2010) (Withdrawn) IEC 61000-4-3 (2006/2020) EN 61000-4-3 (2002/2006 +A1:2008 +A2:2010) (Withdrawn) BS EN 61000-4-3:2020
1.5 Immunity to electromagnetic HF field (GTEM) <i>Frequency Range:</i> <i>20 MHz to 3 GHz</i> <i>Field strength: up to 40 V/m</i>	IEC 61000-4-20:2022 EN 61000-4-20:2022 IEC 61000-4-20:2010 (Withdrawn) EN 61000-4-20:2010 (Withdrawn)	



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	<u>1.0 EMC Tests (Cont'd)</u>	
	1.6 Electrical fast transient burst test <i>0.5 kV to 4.0 kV</i>	IEC 61000-4-4:2012 EN 61000-4-4:2012 IEC 61000-4-4 (1995/2004) (Withdrawn)
	1.7 Surge Immunity Test <i>0.5 kV to 12 kV</i>	IEC 61000-4-5:2014+A1:2017 EN 61000-4-5:2014+A1 2017 IEC 61000-4-5 (1995/2005) (Withdrawn)
	1.8 Test of immunity to conducted disturbances, induced by radio frequency fields <i>Frequency range: 150 kHz to 80 MHz</i> <i>EMF: upto 10 V rms</i>	EN IEC 61000-4-6:2023 IEC 61000-4-6:2023 IEC 61000-4-6 (1996/2006/2008/2013 (Withdrawn)) EN 61000-4-6: 2014+COR 2015 (Withdrawn)
	1.9 Immunity to power frequency magnetic fields of external origin	IEC 61000-4-8:2009 BS EN 61000-4-8:2010 IEC 61000-4-8 (2001) (Withdrawn) EN 61000-4-8 (2001) (Withdrawn)
	1.10 Slow damped oscillatory wave immunity test Max Voltage: 2.5 kV Max Current: 25 A	IEC 61000-4-12 (1995) (Withdrawn) IEC 61000-4-18: 2019 EN 61000-4-18:2019
	1.11 Conducted Disturbance Induced Current 2 kHz to 150 kHz 1 A and 2 A	CLC/TR/50579: 2012 IEC 61000-4-19:2014 BS EN 61000-4-19:2014
	1.12 Voltage dips and Interruptions Max Voltage : 270 V Time period :6 ms to 6 min Max current :16 A	IEC 61000-4-11:2020 EN 61000-4-11:2020 IEC 61000-4-11:2004 (Withdrawn)
	1.13 Voltage dips, short interruptions and voltage variations Max Voltage : 190 V DC Max current :21 A	IEC 61000-4-29:2000 BS EN 61000-4-29:2001



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	<p align="center"><u>1.0 EMC Tests (Cont'd)</u></p> <p>1.14 Ring wave test Max Voltage: 6 kV Max Current: 500 A</p> <p>1.15 Impulse Magnetic Field Immunity test Peak current: 1111A</p> <p>1.16 Harmonic Current Emissions Measurements up to 40th Harmonic</p> <p>1.17 Voltage Changes, Voltage Fluctuations and Flicker Emissions A.C. Mains Up to 16 A</p> <p>1.18 EMC Generic & product specific standards. These are accredited to the extent that the basic standards are included above</p>	<p>IEC 61000-4-12: 2017 EN 61000-4-12: 2017</p> <p>IEC 61000-4-9:2016 BS EN 61000-4-9:2016</p> <p>IEC 61000-3-2:2018+A1:2020 +A2:2024 BS EN 61000-3-2:2019+A1:2021 +A2:2024 IEC 61000-3-2:2014 (Withdrawn) BS EN 61000-3-2:2014 (Withdrawn) IEC 61000-3-2:2005+A1:2008 +A2:2009 (Withdrawn) BS EN 61000-3-2:2006+A1:2008 +A2:2009 (Withdrawn)</p> <p>IEC 61000-3-3:2013+A1:2017 +A2:2021 BS EN 61000-3-3:2013+A1:2019 +A2:2021</p> <p>IEC 62055-31:2005 (Withdrawn) IEC 62055-31:2022 SANS 62055-31: 2023 IEC 62052-21:2004 EN 14236:2018 BS EN 14236:2018</p> <p>EN 14236 (2007) (Withdrawn) BS EN 14236 (2007) (Withdrawn) EN 1359 (1999) Incorporating Amendment No. 1 (Withdrawn) BS EN 1359: 2017 EN 1359: 2017</p> <p>BS EN 62052-21:2004</p>



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	<p align="center"><u>3.0 Mechanical Tests</u></p> <p>3.1 Vibration test <i>Sweep frequency: 10 Hz to 5 kHz</i> <i>Displacement: 20 mm p-p</i> <i>Capacity: 400 kgf</i></p> <p>3.2 Shock test <i>Peak acceleration: 50 g, Half sine pulse Time duration: 11 ms and 18 ms</i></p> <p>3.3 Protection against dust IP5X without suction, IP6X with suction</p> <p>3.4 Protection against water IPX1, IPX2, IPX3 and IPX4, without suction.</p> <p>3.5 Glow wire test/Resistance to heat and fire</p> <p>3.6 Spring and Pendulum Hammer Test</p> <p>3.7 Ingress of solid foreign objects – Finger IP2X</p>	<p>IEC 60068-2-6 (1995) (Withdrawn) IEC 60068-2-6:2007</p> <p>IEC 60068-2-27 (1987) (Withdrawn) IEC 60068-2-27:2007</p> <p>IS/IEC 60529: 2013</p> <p>IEC60695-2-11:2000 (Withdrawn)</p> <p>IEC60068-2-75 (1997-05) (Withdrawn) IEC60068-2-75:2014</p> <p>IS/IEC 60529: 2013</p>
	<p><u>4.0 High Voltage Tests</u></p> <p>4.1 AC Voltage test <i>1 kV to 6 kV</i></p> <p>4.2 Insulation Resistance Test <i>Up to 100 MΩ</i> <i>Test voltage 500V dc</i></p> <p>4.3 Impulse Voltage Test <i>0.5 kV to 12 kV</i></p>	<p>IEC 61000-4-5:2014 IEC 61000-4-5 (1995/2005) (Withdrawn) IEC 60060-1 (1989) (Withdrawn)</p>



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The following tests are paragraph by paragraph from the relevant meter standards and demonstrate the comprehensive nature of the accreditation. In the main the test methods are covered in the basic standards in the previous sections.		
Static Watthour and VAR hour meters, including prepayment meters and smart meters	1. AC Voltage test <i>1 kV to 6 kV</i>	IEC62052-11 (2003) + A1:2016 (Withdrawn) IEC 62052-11:2020/2023
Power metering and monitoring devices (PMD)	2. Insulation Resistance Test <i>Up to 100 MΩ Test Voltage: 500 V dc</i>	IEC 62053-21 (2003) + A1:2016 (Withdrawn) AS 62053.21:2023 IEC 62053-21:2020
	3. Impulse Voltage Test <i>0.5 kV to 12 kV</i>	IEC 62053-22 (2003) + A1:2016 (Withdrawn) AS 62053.22:2023 IEC 62053-22:2020
	4. Limits of Errors	
	5. Meter Constant	
	6. Starting Conditions	IEC 61000-4-5(1995) (Withdrawn) IEC 61000-4-5(2014)
	7. Ambient Temperature Influence	IEC 60060-1 (1989) (Withdrawn) IEC 61000-4-5 (2005) (Withdrawn) IEC 62053-23(2003) + A1:2016 (Withdrawn)
	8. Repeatability of errors test	IEC 62053-23:2020 IEC 62053-61: 1998
	9. Test of power consumption <i>(Upper limits are 100 VA for the current circuit and 10W or 50 VA for the voltage circuit)</i>	IEC 62052-21:2004 IEC 60601-1-2: 2001 (Withdrawn) IEC 62055-31:2005 (Withdrawn) IEC 62053-23 (2003) (Withdrawn)
	10. Influence of Self Heating	IEC 60695-2-10(2000) (Withdrawn) IEC 60695-2-11(2000) (Withdrawn)
	11. Influence of Heating	IEC 62059-32-1:2011 IEC 62053-24 (2014) + A1:2016 (Withdrawn)
	12. Immunity to Earth Fault	AS 62053.24:2023
	13. Test/abnormal voltage condition For test 4 to 13 <i>Single Phase: 0.04 W to 38.4kW Three Phase: 0.12 W to 115.2kW 30 V to 320 V 1 mA to 240 A</i>	IEC 62053-24:2020 IEC 62053-31 (2015) BS EN 62053-21:2003 (Withdrawn) AS 62053.22 (2005) (Withdrawn)
	14. Start Up Test of energy meters <i>30 V to 320 V</i>	BS EN 62053-22:2003 (Withdrawn) BS EN 62053-23:2003 (Withdrawn) BS EN 60687:1993 (Withdrawn) BS EN 61036:1997 (Withdrawn) BS EN 62052-11:2003 (Withdrawn) BS EN 62052-21:2004



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Static Watthour and VAR hour meters, including prepayment meters and smart meters, Power metering and monitoring devices (PMD) (cont'd)	15. No load condition <i>30 V to 320 V</i> 16. Short time over voltage test 17. Spring and pendulum hammer tests <i>0.20 Nm, 0.22 Nm, 0.35 Nm, 0.50 Nm, 0.70 Nm, 1.00 Nm</i> 18. Resistance to heat and fire <i>Up to 1000 °C</i> 19. Tests of effect of voltage dips and short interruptions / influence of supply voltage <i>At 63.5 V, 110 V and 240 V; 50Hz</i> 20. Interpretation of test results and adjustments 21. Test of influence quantities (a)Voltage variation, (b)Frequency Variation, (c)Reverse phase sequence, (d)Voltage unbalance, (e)Auxiliary voltage, (f)Harmonic components in current and voltage circuits, (g)10 percent of third harmonics, (h)Sub-harmonics in a.c. circuit (i)Continuous magnetic induction of external origin, (j)Continuous abnormal magnetic induction of external origin (k)Magnetic induction of external origin,(l)DC and even harmonics in AC circuit, (m)Odd harmonics in AC circuit, (n)Operation of accessories (o)Abnormal AC magnetic induction of external origin (<i>10mT, 200mT</i>) <i>Single Phase: 0.04 W to 38.4 kW</i> <i>Three Phase: 0.12 W to 115.2 kW</i>	BS EN 62054-21:2004 IEC 60068-2-30 AMD1(1985) (Withdrawn) AS 62053.23(2006) (Withdrawn) AS 62052-21:2006 (Withdrawn) AS 62052.11 (2005) (Withdrawn) AS 62053-22 (2005) (Withdrawn) AS 62054.21 (2006) (Withdrawn) AS 62053.21 (2005) (Withdrawn) EN 50470-1:2006 EN 50470-1:2006 + A1 2018 EN 50470-3:2022 EN 50470-3:2006+A1:2018 (Withdrawn) EN 50470-3:2006 (Withdrawn) EN 60068-2-75(1997) (Withdrawn) NMI M6 (2012) NMI-M6:2020/2022 OIMLR46-1/-2 Ed 2012 IEC 61000-4-11:2020 EN 61000-4-11:2020 IEC 61000-4-11:2004 (Withdrawn) IEC 61557-12:2018 (Withdrawn)



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Static Watthour and VAR hour meters, including prepayment meters and smart meters, Power metering and monitoring devices (PMD) (cont'd)	40. Cold Test <i>Ambient to - 40 °C</i> 41. Damp Heat Cyclic test <i>Temperature + 20 °C to + 70 °C</i> <i>Relative Humidity 30 % to 98 %</i> Operation within the specified operation range 42. Operation within the limit range of operation 43. Storage and transport outside the limit range of operation 44. load switching capability 45. Token carrier interface 46. Vibration test <i>Sweep frequency: 10 Hz to 3 kHz</i> <i>Displacement: 20 mm p-p Capacity 400 kgf</i> 47. Protection against dust and water <i>IPX1, IPX2, IPX3, IPX4 and IP5X without suction.</i> 48. Shock test <i>Peak acceleration: 50 g</i> <i>Half sine pulse</i> <i>Time duration: 11 ms and 18 ms</i> Requirement of time keeping 49. Test of keeping time 50. Test of consumption based charging functions 51. Test of time-based charging functions	<p align="center">As listed on pages 6 & 7</p>



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	52. Functional requirements (a)General 53. (b)Robustness of meter accounting process Stability of meteorological Characteristics by applying elevated temperature. 54. High order Harmonics (Test of influence) 55. Test of intrinsic uncertainty 56. Tests of variation of uncertainty with influence quantities 57. Measurement of voltage harmonics and THDu 58. Measurement of current harmonics and THDi 59. Test of compliance voltage and effect of variation of load 60. Test of ripple content 61. Tests of analog output response time 62. Test of limit value of analog output 63. Voltage dip and voltage swell measurements 64. Voltage interruption measurements 65. Voltage unbalance measurements 66. Current unbalance measurements	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>Particular requirement for time switches (synchronized & crystal controlled)</p>	<ol style="list-style-type: none"> 1. Variation of the supply frequency <i>45 Hz to 65Hz</i> <i>Single phase: 0.04 W to 38.4 kW</i> <i>Three Phase: 0.12 W to 115.2 kW</i> 2. Immunity to DC magnetic fields <i>1000 AT, 67 mT to 0.27 T</i> 3. Immunity to AC magnetic fields <i>0.5 mT</i> 4. Voltage dips and short interruptions <i>6 ms to 6 min</i> 5. Tests of effects of supply interruptions on synchronous time switches <i>Voltage 270 V_{p-n}</i> 6. Long interruptions of supply voltage <i>Time up to 6 hours</i> <i>Voltage up to 320 V_{p-n}</i> 7. Operation reserves <i>Time up to 36 hours</i> <i>Voltage up to 320 V_{p-n}</i> Backup power supply replacement Time < 5 minutes 8. Functional requirements and test accuracy <i>(a) time setting and programming</i> <i>(b) time switches with mechanical analogic dials</i> 9. <i>(c) time switches with digital displays</i> 10. Time keeping accuracy <i>Time up to 30 days</i> <i>Voltage up to 320 V_{p-n}</i> 	<p>AS 62052.21:2006 (Withdrawn) AS 62054.21(2006) (Withdrawn) IEC 61000-4-11:2020 EN 61000-4-11:2020 IEC 61000-4-11:2004 (Withdrawn)</p> <p>AS 62052.21:2006 (Withdrawn) AS 62054.21(2006) (Withdrawn)</p>



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<p>Particular requirement for time switches (synchronized & crystal controlled) (cont'd)</p> <p>Tariff and load control equipment</p>	<p>11. Requirement for synchronous time and crystal switches - test of time keeping accuracy <i>(a) test of synchronous and crystal controlled time switches</i> <i>(b) test of synchronous and crystal controlled time switches on operation reserve</i></p> <p>12. Test of time keeping accuracy of crystal-controlled time switches with temperature <i>Frequency: 45 Hz to 65 Hz</i> <i>Single phase: 0.04 W to 38.4 kW</i> <i>Three Phase: 0.12 W to 115.2 kW</i> <i>Temperature -10 °C to + 40 °C</i></p> <p>13. Switching accuracy <i>time up to 168 hours</i> <i>(a) test on time switches with dials</i> <i>(b) test on time switches with digital displays</i> <i>(c) synchronization (time up to 1 minute)</i></p> <p>14. <i>Test of influence of harmonics</i> Single phase: 0.04 W to 38.4 kW Three Phase: 0.12 W to 115.2 kW Time up to 30 days</p> <p>Electrical requirements and tests</p> <ol style="list-style-type: none"> 1. Supply frequency range 2. Output elements 	<p>AS62052-21:2006 (Withdrawn) EN 62059-32-1:2012</p>



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Measuring Instruments - Electrical measuring transducers	<ol style="list-style-type: none"> 1. Environmental condition test 2. Variations due to Auxiliary Supply Voltage 3. Variations due to Auxiliary Supply frequency 4. Variations due to Ambient Temperature 5. Variations due to the frequency of the input quantities 6. Variations due to input Voltage 7. Variations due to input Current 8. Variations due to power factor 9. Variations due to output load 10. Variations due to distortion of the input quantities Variation due to magnetic fields of external origin 11. Variation due to unbalanced currents 12. Variation due to the interaction between measuring elements 13. Variation due to self-heating 14. Variation due to continuous operation 15. Permissible excessive inputs 16. Continuous excessive inputs 17. Excessive inputs of short duration 18. Variation due to common mode interference 19. Variation due to series mode interference 20. Test of limits of Intrinsic Error 21. Marking 22. Test for temperature rise Limiting condition for storage and transport (up to 80 °C 23. Response time (<i>up to 700 ms</i>) 	<p>IEC 60688 (2015) (Withdrawn) IEC 60688 (2021) IS 12784 part 1 (1989) IEC 60521 (1988) (Withdrawn) IEC 61000-4-12 (1995) (Withdrawn) IEC 61010-1(2001) (Withdrawn)</p>



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Measuring Instruments - Electrical measuring transducers (cont'd)	Limiting value of output (0 V to 320 V, 0 A to 120 A) 24. Sealing verification 25. Ripple content of output (0 V to 320 V, 0 A to 120 A) 26. Over range of measurand (0 V to 320 V, 0 A to 120 A) 27. and other safety requirements 28. Impulse voltage tests 29. High frequency disturbance test 30. Voltage test, insulation tests	As listed on previous page



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Electricity Metering Equipment (AC)	Information and marking requirements (clause 5) General. Labels, signs and signals. Information for selection. Information for installation and commissioning. Information for use. Information for maintenance. Protection against electrical shock (clause 6) General requirements Determination of accessible parts. Limit values for accessible parts. Primary means of protection (protection against direct contact). Additional means of protection in case of single fault conditions (protection against indirect contact). Connection to external circuits. Insulation requirements. Insulation requirements between circuits and parts. Constructional requirements for protection against electric shock. Safety related electrical tests.	IEC 62052-31:2024 IEC 62052-31:2015 (Withdrawn) AS 62052-31:2017+Amd 1:2021 AS 62052-31:2017 Clause 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 Annex A to K



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Electricity Metering Equipment (AC) (cont'd)	Protection against mechanical hazards (7) General. Sharp edges. Provisions for lifting and carrying. Resistance to mechanical stresses (8) General. Spring hammer test. Protection against spread of fire (9) General. Eliminating or reducing the sources of ignition within the equipment. Containment of fire within the equipment, should it occur. Limited-energy circuit. Overcurrent protection Equipment temperature limits and resistance to heat (10) Surface temperature limits for protection against burns. Temperature rise limits for terminals. Temperature of internal parts. Temperature test. Resistance to heat. Protection against penetration of dust and water (11) Protection against liberated gases and substances explosion and implosion - Batteries and battery charging (12) Components and sub-assemblies (13) General. Mains transformers tested outside equipment. Printed wiring boards. Components bridging insulation. Circuits or components used as transient overvoltage limiting devices. Hazards resulting from application - Reasonably foreseeable misuse (14) Risk Assessment (15)	IEC 62052-31:2015 (Withdrawn) AS 62052.31:2017 Clause 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 Annex A to K



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Electricity Metering Equipment (AC) (cont'd)	<p>Measuring circuits for touch Current (Annex A) Examples for insulation between Parts (Annex B) Examples for direct connected meters equipped with supply control and load control switches (Annex C) Test circuit diagram for the test of long term overvoltage withstand (Annex D) Test circuit diagram for short current test on the current circuit of direct connected meters (Annex E)</p> <p>Examples for voltage tests (Annex F) Additional a.c. voltage tests for electromechanical meters (Annex G) Test equipment for cable flexion and pull test (Annex H) Routine tests (Annex I) Examples of battery protection (Annex J) Rationale for specifying overvoltage category III (Annex K)</p>	



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<p>Diaphragm, Ultrasonic, Thermal mass flow, RPD and Turbine gas meters</p>	<p>Metrological performance: Permissible errors of indication Pressure absorption Starting flow rate Zero flow Metrological stability Overload flow rate Environment and humidity Influence of other devices attached to the meter Cyclic volume Test mode comparison (up to 10 m³/hr)) Gas — air relationship Immunity to contaminants in gas stream Installation effects Reverse flow Low and high flow registration Pulsed (unsteady) flow Flow disturbance tests Temperature sensitivity Accuracy classes and maximum permissible errors (MPE) Weighted mean error (WME) Flow direction Interchangeable components Reproducibility Repeatability Vibrations and shocks Test mode comparison</p> <p>Extended range for EN 1359/ BS EN 1359:2017: 10m³/hr. to 65 m³/hr (Only for clauses 7.2.2, 7.3.3, 7.3.5) 10m³/hr. to 100 m³/hr (Only for clauses 5.3, 7.1.2) 10m³/hr. to 160 m³/hr (Others) 10m³/hr. to 192 m³/hr (Only for clause 5.5)</p> <p>Extended Range for OIML R137-1&2: 10m³/hr. to 100 m³/hr (Only for clauses 5.10, 12.6.9) 10m³/hr. to 2500 m³/hr (Others)</p>	<p>BS EN 1359:2017 EN 1359:2017 excluding 5.6, 6.2.2, 6.3.6.3, 6.6.6, 6.2.2, 7.1.3, 7.1.4, 7.3.1, 7.3.4, 8.3.4, B.2.1, B.2.2, B.2.3, C.1, C.2 for ranges > 10 m³/hr BS EN 14236:2018, EN 14236:2018, EN 16314:2013 BS EN 16314:2013, Excluding 4.8, 4.9.3, 4.9.4, 4.11.2, 4.12.4, 7.13.4.5, 7.13.4.6, 7.13.4.7, 7.13.4.8, 7.13.4.9, C.9, D.2, D.4, D.5 for ranges > 10 m³/hr OIML R137-1&2:2012(E) Including Amendment 2014 Including only Clauses for R137-1: 5.3, 5.4, 6.4.2, 6.4.3, 5.6, 5.7, 5.13.2, 5.10, 5.11, 5.12, 5.13.6, 5.13.7, 5.13.8 for ranges > 10 m³/hr Including only Clauses for R137-2: 12.6.1, 12.6.2, 12.6.3, 12.6.5, 12.6.9, 12.6.11, 12.6.13, 12.6.14, A.4.2.2, A.5.1, A.5.2, A.8, 12.6.16 for ranges > 10 m³/hr NMI R137-1&2(2013) Including only Clauses for R137-1: 5.3, 5.4, 6.4.2, 6.4.3, 5.6, 5.7, 5.13.2,6.2, 5.9, 5.10, 5.11, 5.13.5, 5.12, 5.13.6, 5.13.7, 5.13.8 Including only Clauses for R137-2: 12.6.1, 12.6.2, 12.6.3, 12.6.5, 12.6.7, 12.6.9, 12.6.11, 12.6.12, 12.6.13, 12.6.14, A.4.1, A.4.1.2, A.4.2.2, A.5.1, A.5.2, A.6.1.1, A.6.1.2, A.6.2, A.8, 12.6.16</p>



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Diaphragm, Ultrasonic, Thermal mass flow, RPD and Turbine gas meters (cont'd)	<p>Range for NMI R137-1&2: Up to 2500 m³/hr (for clauses 5.3, 5.4, 6.4.2, 6.4.3, 5.6, 5.7, 5.13.2, 6.2, 5.11, 5.12, 5.13.6, 5.13.7, 5.13.8, 12.6.1, 12.6.2, 12.6.3, 12.6.5, 12.6.11, 12.6.13, 12.6.14, A.4.2.2, A.5.1, A.5.2, A.8, 12.6.16) Up to 10 m³/hr (5.9, 12.6.7, 5.13.5, 12.6.12, A.4.1.1, A.4.1.2, A.6.1.1, A.6.1.2, A.6.2) Up to 100m³/hr (5.10, 12.6.9) Up to 160m³/hr (5.13.9)</p> <p>Extended range for EN 16314/ BSEN 16314:2013: 10m³/hr. to 40 m³/hr</p> <p>Extended range for EN 17526/ BSEN 17526 :2021 +A1:2025: 10m³/hr. to 65m³/hr (Only for clause 6.10) 10m³/hr. to 100 m³/hr (Only for clause 5.11) 10m³/hr. to 160 m³/hr (Others) 10m³/hr. to 192 m³/hr (Only for clause 5.12)</p>	<p>EN 17526:2021+A1:2025 BS EN 17526:2021 BS EN 17526:2021+A1:2025 excluding 5.2, 5.3, 5.4, 5.6, 5.7, 5.8.2.2, 5.8.2.3, 5.8.2.4, 5.13, 6.4.3, 6.11, 7.3, 9.3.3, 13.3 for ranges > 10 m³/hr</p> <p>BS EN 1359:1999 Incorporating Amendment No. 1 (superseded) EN 1359:1998 + Amendment No. 1 (superseded) EN 14236:2007 (superseded) BS EN 14236:2007 (superseded)</p> <p>Note: previously added scope for ranges ≤10 m³/hr will not be changed)</p>



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Diaphragm, Ultrasonic, Thermal mass flow, RPD and Turbine gas meters	<p>Construction and material properties: Resistance to interference Mechanical interference Unauthorized interference Robustness/Robustness of meter case External leak tightness Resistance to internal pressure Meter case sealing Connections Orientation Threads and flanges for single and two pipe meters Torque Bending moment Resistance to vibration/ Mechanical(vibration) class Resistance to impact Resistance to mishandling Corrosion protection Casework decorative finish Resistance to storage temperature Optional features Pressure measuring point Electrical insulating feet Magnetic index drive Devices to prevent the registration of reverse flow Devices to prevent reverse flow Resistance to high temperatures/high ambient temperature Resistance to external humidity Flame retardance of external surfaces Requirements of rubber components in the gas path Resistance to the effects of toluene/iso-octane vapour Resistance to water vapour Meters with temperature conversion Additional functionalities Ageing Influences from Ancillary devices Dry heat Cold Damp heat, steady state (non-condensing) Vibration(random) Mechanical shock</p>	<p>BS EN 1359:2017 EN 1359:2017 BS EN 14236:2018, EN 14236:2018, excluding 6.7 Protection against solar radiation EN 16314:2013 BS EN 16314:2013, OIML R137-1&2:2012(E) Including Amendment 2014 IEC 60068-2-1:2007 IEC 60068-2-2:2007 IEC 60068-2-30:2005 IEC 60068-2-31:2008 IEC 60068-2-47:2005 IEC 60068-2-64:2008 IEC 60068-2-78:2013 (Withdrawn) NMI R137-1&2(2013)</p> <p>BS EN 17526:2021 (superceeded) BS EN 17526:2021+A1:2025 EN 17526:2021+A1:2025</p> <p>BS EN 1359:1999 Incorporating Amendment No. 1 (superseded) EN 1359:1998 + Amendment No. 1 (superseded) EN 14236:2007 (superseded) BS EN 14236:2007 (superseded)</p>



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Diaphragm, Ultrasonic, Thermal mass flow, RPD and Turbine gas meters	<p>Mechanical performance: Durability Meter error of indication at declared gas temperature limits Error of indication subject to declared ambient temperature limit Error of indication where the gas and ambient temperatures are not equal (up to 10m³/hr) Index Construction details Index windows and surround Diaphragms and components in the gas path Toluene/iso-octane vapour test Water vapour test Ageing Marking (all relevant type of meter and two pipe meter test) Durability and legibility of marking (all relevant type of meter and two pipe meter test) Ultraviolet exposure test Indelibility Accompanying information Security Software Communications Battery Voltage interruptions Minimum operating voltage Battery Battery life Immunity to electromagnetic disturbances Permanent magnetic fields Electrostatic discharge Radio frequency electromagnetic field Electromagnetic induction (power frequency) Electromagnetic induction (pulsed field) Radio interference suppression DC mains voltage variation: influence test AC mains voltage variation: influence test AC mains voltage dips and short interruptions: disturbance test Low voltage of internal battery (not connected to the mains power): influence test</p>	<p>BS EN 1359:2017 EN 1359:2017 BS EN 14236:2018, EN 14236:2018, EN 16314:2013 BS EN 16314:2013, OIML R137-1&2:2012(E) Including Amendment 2014 NMI R137-1&2(2013)</p> <p>EN 17526:2021+A1:2025 BS EN 17526:2021 (superseded) BS EN 17526:2021+A1:2025</p> <p>BS EN 1359:1999 Incorporating Amendment No. 1 (superseded) EN 1359:1998 + Amendment No. 1 (superseded) EN 14236:2007 (superseded) BS EN 14236:2007 (superseded)</p> <p>EN 17526:2021+A1:2025 IEC 61000-4-3:2020 IEC 61000-4-6:2023 IEC 61000-4-2:2025 IEC 61000-4-4:2012 IEC 61000-4-5: 2014+A1:2017 IEC 61000-4-9:2016 IEC 60654-2:1979 (Withdrawn) IEC/TR 61000-2-1 IEC 61000-4-11:2020 EN 61000-4-11:2020 IEC 61000-6-1:2007 (withdrawn), IEC 61000-6-2:2005 (Withdrawn) BS EN 61000-4-3:2020</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Diaphragm, Ultrasonic, Thermal mass flow, RPD and Turbine gas meters	Additional functionality Types of additional functionality devices AFD1, AFD2, AFD3 Climatic environments Closed location Temperature range Gas temperature range Safety requirements Immunity to electromagnetic disturbances for Meters/AFD's with external ports Expected lifetime Security Software, data and hardware security Firmware upgrade Software identification Power system Display Diagnostics Metrological influence AFD connections Input to AFD & Output from AFD Data storage Time interval accuracy Energy Calculation within the meter/AFD Tariffs Display/Human interface Gas valve and System Design Quality Valve operation & performance Display of valve related information Valve closing & opening Electrical Safety Registers Prepayment System History of Consumption Memory Access profiles Non-volatile memory Water vapour Endurance Documentation Ageing Marking Display reset Test signal Flags and alarms information Interfaces Ports	EN 16314:2013



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Rotary displacement gas meters	<p>5. Metrological performance Error of indication Pressure loss Metrological repeatability Storage temperature range Bidirectional meters Influence of oil filling</p> <p>6. Design and Manufacture Penetration resistance Adhesion of the protective coating Overload Protection against foreign matter Pressure tappings Temperature tappings</p> <p>7. Meter output Mechanical indicating device Test element Index window requirements – general Stiffness Ultraviolet radiation Window impact</p> <p>8. Durability</p> <p>9. Marking, labelling and packaging General Direction of flow Pressure tappings Durability and legibility of marking</p>	<p>BS EN 12480:2018 EN 12480:2018 Including only clauses: 5.2, 5.3, 5.4, 5.6.4, 5.8, 5.9, 6.2.4, 6.2.5, 6.3.4, 6.4.1, 6.6.1, 6.6.2, 7.1.3, 7.1.4, 7.2.1.1, 7.2.1.2, 7.2.1.3, 7.2.1.4, 8, 9</p> <p>Flow rate up to 1000 m³/hr Pressure up to 70 mbar Temperature range, -40 °C to 150 °C</p> <p>Durability up to 100 m³/hr</p>



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Turbine gas meters	<p>5. Metrological performance Error of indication Weighted Mean Error requirements Metrological stability Temporary overload Maximum permissible pressure loss</p> <p>6. Design, Material Requirements and Manufacture Resistance to impact Resistance to ultraviolet radiation Adhesion of the protective coating Resistance to external corrosion atmosphere Performance Pressure tapplings Metering pressure tapplings Dimensions Temperature tapplings</p> <p>7. Meter output Indicating device Electrical connections</p> <p>8. Marking General Data plate Direction of flow Working position Other connections</p>	<p>BS EN 12261:2024 EN 12261:2024 Including only clauses: 5.2.1, E.3, E.5.1, E.5.2, 5.2.2, 5.2.6, 5.2.9, 6.2.7, 6.4.2, 6.4.3.3, 6.4.3.4, 6.5.2, 6.7.1, 6.7.1.2, 6.7.1.3, 6.7.2, 7.2, 7.3.3, 8.1, 8.2, 8.3, 8.4, 8.5</p> <p>Pressure range below 4 bar</p> <p>Flow rate up to 2500 m³/hr</p>

END