#### **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

#### Yaday Measurements Private Limited

Issue No: 037 Issue date: 18 March 2025

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Plot No. F-373 - 375

Riico Bhamashah Industrial Area

Kaladwas

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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 customerspecified 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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### United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

#### **Yadav Measurements Private Limited**

Issue No: 037 Issue date: 18 March 2025

#### Testing performed at main address only

#### **DETAIL OF ACCREDITATION**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	1.0 EMC Tests	
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:	1.1 Conducted Radio interference Emissions Measurement Frequency Range 0.15 MHz to 30 MHz 0 dBµV to 137 dBµV	EN55022:2006 EN55022:2006 +A1:2008 CISPR 22 (1997/2006/2008) CISPR 16 -2-1:2008 CISPR 16 -2-1:2014 CISPR 32 (2015) + A1 (2019) EN55011:2007 EN55011:2009 EN55011:2016 + A1:2016 + A11:2020 + A2:2021 CISPR 11:2004 CISPR 11:2009
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	1.2 Radiated Emissions Frequency Range: 30 MHz to 2.5GHz quite zone 2m x 2m x 2m 2.5GHz to 6GHz quite zone 1.5m x 1.5m x 1.5m	EN55011:2007 EN55011:2009 EN55011:2016 + A1:2016 + A11:2020 + A2:2021 CISPR 11:2004 CISPR 11:2009 CISPR 32 (2015) CISPR 16 -2-3 IEC 61000-4-2 (1995) IEC 61000-4-2 (1995/2009)
Flow/Gas meters	1.3 Immunity to Electrostatic Discharge	
	1.4 Immunity to electromagnetic HF field Frequency Range: 80 MHz to 6 GHz Field strength: up to 30 V/m	IEC 61000-4-3 (2002' 2010) IEC 61000-4-3 (2006/2020) EN 61000-4-3 (2002/2006 +A1:2008 +A2:2010) BS EN 61000-4-3:2020
	1.5 Immunity to electromagnetic HF field (GTEM) Frequency Range: 20 MHz to 3 GHz Field strength: up to 40 V/m	IEC 61000-4-20:(2010, 2022) EN 61000-4-20:(2010, 2022)
	1.6 Electrical fast transient burst test 0.5 kV to 4.0 kV	IEC 61000-4-4 (1995/2004/2012) EN 61000-4-4: 2012
	1.7 Surge Immunity Test 0.5 kV to 12 kV	IEC 61000-4-5 (1995/2005/2014)+A1 2017 EN 61000-4-5: 2014+A1 2017

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	1.0 EMC Tests (Cont'd)	
	1.8 Test of immunity to conducted disturbances, induced by radio frequency fields  Frequency range: 150 kHz to 80 MHz  EMF: upto10 V rms	IEC 61000-4-6 (1996/2006/2008/2013/2023) EN 61000-4-6: 2014+COR 2015
	1.9 Immunity to power frequency magnetic fields of external origin	IEC 61000-4-8 (2001/2009) EN 61000-4-8 (2001) BS EN 61000-4-8:2010
	1.10 Slow damped oscillatory wave immunity test Max Voltage: 2.5 kV Max Current: 25 A	IEC61000-4-12 (1995) 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: 2004/2020 EN 61000-4-11:2020
	1.13 Voltage dips, short interuptions and voltage variations Max Voltage : 190 V DC Max current :21 A	IEC 61000-4-29:2000 BS EN 61000-4-29:2001
	1.14 Ring wave test Max Voltage: 6 kV Max Current: 500 A	IEC 61000-4-12: 2017 EN 61000-4-12: 2017
	1.15 Impulse Magnetic Field Immunity test Peak current: 1111A	IEC 61000-4-9:2016 BS EN 61000-4-9:2016

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	1.16 Harmonic Current Emissions Measurements up to 40th Harmonic	IEC 61000-3-2:2018+A1:2020 +A2:2024 BS EN 61000-3-2:2019+A1:2021 +A2:2024 IEC 61000-3-2:2014 BS EN 61000-3-2:2014 IEC 61000-3-2:2005+A1:2008 +A2:2009 BS EN 61000-3-2:2006+A1:2008 +A2:2009
	1.17 Voltage Changes, Voltage Fluctuations and Flicker Emissions A.C. Mains Up to 16 A	IEC 61000-3-3:2013+A1:2017 +A2:2021 BS EN 61000-3-3:2013+A1:2019 +A2:2021
	1.18 EMC Generic & product specific standards. These are accredited to the extent that the basic standards are included above	IEC 62055-31:2005 IEC 62055-31:2022 SANS 62055-31: 2023 IEC 62052-21:2004 EN 14236 (2007) and 2018 BS EN 14236 (2007) and 2018 EN 1359 (1999) Incorporating Amendment No. 1 BS EN 1359: 2017 EN 1359: 2017 BS EN 62052-21:2004

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	2.0 Climatic Tests	
	2.1 Dry Heat Test  Ambient to +120 °C	IEC 60068-2-2 (1994) IEC 60068-2-2 (2007)
	2.2 Cold Test / resistance to storage temperature range  Ambient to - 40 °C and + 60 °C	IEC 60068-2-1 (1994) IEC 60068-2-1 (2007)
	2.3 Damp Heat Cyclic / resistance to external humidity test  Temperature + 20 °C to + 60 °C  Relative Humidity 30 % to 95 %	IEC 60068-2-30 (1980) AMD1 (1985) IEC 60068-2-30:2005
	2.4 Resistance to salt spray	BS EN 1359:2017 EN 1359:2017 BSEN 1359:1999 Incorporating Amendment No. 1 EN 1359:1998 + Amendment No. 1 Clause 6.3.2.1.5 & 6.3.2.2.2 ISO 7253:1984. BSEN ISO 7253:2001, EN ISO 9227:2012 EN ISO 9227:2017 EN 14236:2007 and 2018 BS EN 14236:2007 and 2018 Clause 6.3.2.5 & 6.3.3.2
	2.5 Salt Mist	IEC 62052-11:2020/2023 In house procedure TP-GASM-4.1 As above

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#### Testing performed at main address only

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

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	by paragraph from the relevant meter sta ditation. In the main the test methods are	
· · · · · · · · · · · · · · · · · · ·	<ol> <li>AC Voltage test         1 kV to 6 kV</li> <li>Insulation Resistance Test         Up to 100 MΩ         Test Voltage: 500 V dc</li> <li>Impulse Voltage Test         0.5 kV to 12 kV</li> <li>Limits of Errors</li> <li>Meter Constant</li> <li>Starting Conditions</li> <li>Ambient Temperature Influence</li> <li>Repeatability of errors test</li> <li>Test of power consumption         (Upper limits are 100 VA for the current circuit and 10W or 50 VA for the voltage circuit)</li> <li>Influence of Self Heating</li> <li>Influence of Heating</li> <li>Immunity to Earth Fault</li> <li>Test/abnormal voltage condition For test 4 to 13         Single Phase: 0.04 W to 38.4kW         Three Phase: 0.12 W to 115.2kW         30 V to 320 V</li> </ol>	IEC62052-11 (2003) + A1:2016 IEC 62052-11:2020/2023 IEC 62053-21 (2003) + A1:2016 AS 62053-21:2023 IEC 62053-21:2020 IEC 62053-22 (2003) + A1:2016 AS 62053-22:2023 IEC 62053-22:2020 IEC 61000-4-5(1995) IEC 61000-4-5(2014) IEC 60060-1 (1989) IEC 61000-4-5 (2005) IEC 62053-23:2020 IEC 62053-23:2020 IEC 62053-23:2020 IEC 62053-23:2020 IEC 62053-23:2020 IEC 62053-21:2004 IEC 60601-1-2: 2001 IEC62055- 31:2005 IEC62053- 23 (2003) IEC 66095-2-10(2000) IEC 62053-23:2020 IEC 62053-23:2020 IEC 62053-23:2020 IEC 62053-23 (2003) IEC 66095-2-11(2000) IEC 62053-21:2011 IEC 62053-24 (2014) + A1:2016 AS 62053-24:2023 IEC 62053-24:2023 IEC 62053-21:2003 AS 62053-22:2003 BS EN 62053 -22:2003 BS EN 62053 -22:2003 BS EN 62053 -23:2003 BS EN 60687:1993 BS EN 60687:1993 BS EN 60052- 11:2003 BS EN 62052- 11:2004 BS EN 62054- 21:2004 BS EN 62054- 21:2004 IEC 60068-2-30 AMD1(1985)
	1 mA to 240 A  14. Start Up Test of energy meters 30 V to 320 V	

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters, including prepayment meters and smart meters, Power metering and monitoring devices (PMD) (cont'd)	15. No load condition 30 V to 320 V	
	<ul> <li>16. Short time over voltage test</li> <li>17. Spring and pendulum hammer tests  0.20 Nm, 0.22 Nm, 0.35 Nm, 0.50 Nm, 0.70 Nm, 1.00 Nm</li> <li>18. Resistance to heat and fire  Up to 1000 °C</li> <li>19. Tests of effect of voltage dips and short interruptions / influence of supply voltage  At 63.5 V, 110 V and 240 V; 50Hz</li> <li>20. Interpretation of test results and adjustments</li> <li>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 (k) Magnetic induction of external origin, (l) DC and even harmonics in AC circuit, (m) Odd harmonies in AC circuit, (m) Odd harmonies in AC circuit, (n) Operation of accessories (o) Abnormal AC magnetic induction of external origin (10mT, 200mT) Single Phase: 0.04 W to 38.4   kWThree Phase: 0.12 W to 115.2   kW</li> </ul>	AS 62053.23(2006) AS 62052-21:2006 AS 62052-21 (2005) AS 62053-22 (2005) AS 62054.21 (2006) AS 62053.21 (2005)  EN50470-1:2006 EN50470-1:2006 + A1 2018 EN50470-3:2006/2022 EN50470-3: 2006_A1:2018/2022 EN60068-2-75(1997)  NMI M6 (2012) NMI-M6:2020/2022  OIMLR46-1/-2 Ed 2012 IEC 61000-4-11:2020 IEC 61557-12:2018

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters, including prepayment meters and smart meters, Power	22. Short time over current test 20 A to 7000 A (1/2 cycle to 50 cycles) (1/2 cycle up to 12 kA peak  23. Short time over current test up to 1000 A for up to 25 cycles and up to 7000 A (½ cycles)	
metering and monitoring devices (PMD) (cont'd)		
	24. Surge Immunity Test 0.5 kV to 12 kV	As listed on pages 6 & 7
	25. Electrical fast transient burst test 0.5 kV to 4.0 kV	BS EN / EN 16314:2013
	26. General and constructional / Mechanical requirements (A)General: (a)Meter case	
	(b)Display of measured values (c)Output device Optical output device	
	characteristics. Irradiance and pulse parameters (d)Window	
	(B)Terminal: (a)Terminal block(s) - Protective earth terminal, including heat deflection test	
	(b)Terminal cover(s) (c)Clearance and Creepage distances (d)Insulating encased meter of protective class II	
	27. Meter Marking and documentation	
	28. Time keeping Accuracy	
	29. Durability 30.	

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters, including prepayment meters and smart meters, Power metering and monitoring devices (PMD) (cont'd)	31. Pulse outputs  32. Electrical pulse inputs  33. Fast load Current Variation  34. Conducted Radio Interference Emissions Measurement Frequency Range  0.15 MHz to 30 MHz  0 to 137 dBµV  35. Test of immunity to conducted disturbances, induced by radio frequency fields  Frequency range 150 kHz to 80 MHz, EMF: up to 10 V rms  36. Immunity to electromagnetic HF field  Frequency Range: 80 MHz to 6GHz  Field strength: up to 30 V/m  37. Radiated Emissions  Measurement  Frequency Range: 30 MHz to 6GHz  Range: 0 to 137 dBµV  Damped oscillatory wave immunity test  38.  Immunity to Electrostatic  Discharge  39.  Immunity to power frequency magnetic fields of external origin 40.  41. Dry Heat Test  Ambient to +120 °C	BS EN / EN 16314:2013 (28 only)  As listed on pages 6 & 7

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters, including prepayment meters and smart meters, Power metering and monitoring devices (PMD) (cont'd)	42. Cold Test Ambient to - 40 °C  43. Damp Heat Cyclic test Temperature + 20 °C to + 70 °C Relative Humidity 30 % to 98 %  Operation within the specified operation range 44. Operation within the limit range of operation 45. Storage and transport outside the limit range of operation 46. load switching capability 47. Token carrier interface 48. 49. Vibration test Sweep frequency: 10 Hz to 3 kHz Displacement: 20 mm p-p Capacity 400 kgf  50. Protection against dust and water IPX1, IPX2, IPX3, IPX4 and IP5X without suction. 51. Shock test Peak acceleration: 50 g Half sine pulse Time duration: 11 ms and 18 ms  Requirement of time keeping 52. Test of keeping time 53. Test of consumption based charging functions 54. Test of time-based charging functions	As listed on pages 6 & 7

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	<ul> <li>55. Functional requirements (a)General</li> <li>56. (b)Robustness of meter accounting process Stability of meteorological Characteristics by applying elevated temperature.</li> <li>57. High order Harmonics (Test of influence)</li> <li>58. Test of intrinsic uncertainty 59. Tests of variation of uncertainty with influence quantities</li> <li>60. Measurement of voltage harmonics and THDu</li> <li>61. Measurement of current harmonics and THDi</li> <li>62. Test of compliance voltage and effect of variation of load</li> <li>63. Test of ripple content</li> <li>64. Tests of analog output response time</li> <li>65. Test of limit value of analog output</li> <li>66. Voltage dip and voltage swell measurements</li> <li>67. Voltage interruption measurements</li> <li>68. Voltage unbalance measurements</li> <li>69. Current unbalance measurements</li> <li>69. Current unbalance measurements</li> </ul>	

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#### **Yadav Measurements Private Limited**

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Particular requirement for time switches (synchronized & crystal controlled)	1. Variation of the supply frequency 45 Hz to 65Hz Single phase: 0.04 W to 38.4 kW) Three Phase: 0.12 W to 115.2 kW)	AS62052-21:2006 AS 62054.21(2006) IEC 61000-4-11:2004/2020 EN 61000-4-11:2020
	2. Immunity to DC magnetic fields 1000 AT, 67 mT to 0.27 T	
	3. Immunity to AC magnetic fields 0.5 mT	
	<ol> <li>Voltage dips and short interruptions</li> <li>6 ms to 6 min</li> <li>Tests of effects of supply interruptions on synchronous time switches</li> <li>Voltage 270 Vp-n</li> <li>Long interruptions of supply voltage         <i>Time up to 6 hours</i></li> <li>Voltage up to 320 V<sub>p-n</sub></li> <li>Operation reserves         <i>Time up to 36 hours</i></li> <li>Voltage up to 320 V<sub>p-n</sub>         Backup power supply replacement Time &lt; 5 minutes</li> <li>Functional requirements and test accuracy         (a)time setting and programming         (b) time switches with mechanical analogic dials</li> <li>(c)time switches with digital displays</li> <li>Time keeping accuracy         <i>Time up to 30 days</i></li> <li>Voltage up to 320 V<sub>p-n</sub></li> </ol>	AS 62052-21:2006 AS 62054.21(2006) (cont'd)

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Particular requirement for time switches (synchronized & crystal	11. Requirement for synchronous time and crystal switches - test of time keeping accuracy (a) test of synchronous and crystal controlled time switches (b)test of synchronous and crystal controlled time switches on operation reserve	
controlled) (cont'd)	12. Test of time keeping accuracy of crystal-controlled time switches with temperature  Frequency: 45 Hz to 65 Hz  Single phase: 0.04 W to 38.4 kW  Three Phase: 0.12 W to 115.2 kW  Temperature -10 °C to + 40 °C	
	13. Switching accuracy time up to 168 hours (a) test on time switches with dials (b)test on time switches with digital displays (c)synchronization (time up to 1 minute)	
	14. Test of influence of harmonics Single phase: 0.04 W to 38.4 kW Three Phase: 0.12 W to 115.2 kW Time up to 30 days	
Tariff and load control equipment	Electrical requirements and tests 1. Supply frequency range 2. Output elements	AS62052-21:2006 EN 62059-32-1:2012

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Measuring Instruments - Electrical measuring transducers	<ol> <li>Environmental condition test</li> <li>Variations due to Auxiliary Supply Voltage</li> <li>Variations due to Auxiliary Supply frequency</li> <li>Variations due to Ambient Temperature</li> <li>Variations due to the frequency of the input quantities</li> <li>Variations due to input Voltage</li> <li>Variations due to input Current</li> <li>Variations due to power factor</li> <li>Variations due to output load</li> <li>Variations due to distortion of the input quantities</li> <li>Variation due to magnetic fields of external origin</li> <li>Variation due to unbalanced currents</li> </ol>	IEC 60688 (2015) IEC 60688 (2021) IS 12784 part 1 (1989) IEC 60521 (1988) IEC 61000-4-12 (1995)
	<ul> <li>12. Variation due to the interaction between measuring elements</li> <li>13. Variation due to self-heating</li> <li>14. Variation due to continuous operation</li> <li>15. Permissible excessive inputs</li> <li>16. Continuous excessive inputs</li> <li>17. Excessive inputs of short duration</li> </ul>	IEC 61010-1(2001)
	<ul> <li>18. Variation due to common mode interference</li> <li>19. Variation due to series mode interference</li> <li>20. Test of limits of Intrinsic Error</li> <li>21. Marking</li> <li>22. Test for temperature rise Limiting condition for storage and transport (up to 80 °C</li> <li>23. Response time (up to 700 ms)</li> </ul>	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 62052-31:2015/2024 AS 62052-31:2017 Clause 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 Annex A to K

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Electricity Metering Equipment (AC) (cont'd)	Protection against mechanical hazards (7) General. Sharp edges. Provisions for lifting and carrying. Resistance to mechanicals 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 62052-31:2017 Clause 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 Annex A to K

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#### **Schedule of Accreditation** issued by

# United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

#### **Yadav Measurements Private Limited**

Issue No: 037 Issue date: 18 March 2025

#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Electricity Metering Equipment (AC) (cont'd)	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)  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)	

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Issue No: 037 Issue date: 18 March 2025

#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Diaphragm, Ultrasonic and Thermal mass flow domestic gas meters	Metrological performance: Permissible errors of indication Carried out on air only from 0.016 m³/hour to 10 m³/hour 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 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 Reproducibility Repeatability Vibrations and shocks Test mode comparison	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 EN 17526:2021 excluding 5.8.2.3 and 5.8.2.4  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)

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#### **Yadav Measurements Private Limited**

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Diaphragm, Ultrasonic and Thermal mass flow domestic gas meters	Mechanical performance: Durability Meter error of indication at declared gas temperature limits Error of indication subject to declared ambient temperature limit 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 Adhesion Accompanying information Security Software Battery Voltage interruptions Minimum operating voltage Battery life Immunity to electromagnetic disturbances 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	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 EN 17526:2021  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)  EN 17526:2021 IEC 61000-4-3 IEC 61000-4-6 IEC 61000-4-2 IEC 61000-4-9 IEC 6654-2 IEC/TR 61000-2-1 IEC 61000-4-11, EN 61000-6-1, IEC 61000-6-2 BS EN 61000-4-3:2020

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#### Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Diaphragm, Ultrasonic and Thermal mass flow domestic gas meters	Additional functionality Types of additional functionality devices AFD1, AFD2, AFD3 Climatic environments Closed location Safety requirements Expected lifetime Security 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	EN 16314:2013
	END	

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