Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

2437

Accredited to ISO/IEC 17025:2005

Yadav Measurements Private Limited

Issue No: 011 **Issue date:** 05 September 2007

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Testing performed at the above address only

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2005 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 LAB39 and EA document EA-2/05.

NOTES

The abbreviation IS refers to Indian Standards and the abbreviation CBIP refers to the Central Bureau of Irrigation and Power, Government of India.

Tests carried out to IS13779:1999 include Amendment 1 (October 2003), Amendment 2 (October 2004), Amendment 3 (December 2004) and Amendment 4 (June 2006)

Tests carried out to IS14697:1999 include Amendment 1 (October 2003), Amendment 2 (October 2004) and Amendment 3 (December 2004).

Tests carried out to CBIP 88:February 2002 include Amendment 4 (2005).

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	AC Voltage test *2 kV to 6 kV*	IEC 60687 (1992) BS EN 60687:1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999), IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23(2006) NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Insulation Resistance Test *Up to 100 MW* *Test Voltage: 500 V dc*	CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999)
Static Watthour and VAR hour meters	Impulse Voltage Test *0.5 kV to 10 kV*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999), IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62053.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.22 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62052.21 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23(2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Limits of Errors *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268(1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Surge Immunity Test *0.5 kV to 12 kV*	IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 EN50470-1:2006 EN50470-3:2006

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Meter Constant *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Starting Conditions *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21(2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Start Up Test of energy meters *40 V to 320 V*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002), IS13779 (1999) IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	No load condition *40 V to 320 V*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Repeatability of errors test *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Ambient Temperature Influence *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) AS 62052.11 (2005) IEC62052-11 (2003) BS EN 62052-11:2003 AS 62053.21 (2005) IEC62053-21 (2003) BS EN 62053-21:2003 AS 62053.22 (2005) IEC62053-22 (2003) BS EN 62053-22:2003 AS 62053.23 (2006) IEC62053-23 (2003) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Test of influence quantities *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* Voltage variation Frequency Variation Reverse phase sequence Voltage unbalance Auxiliary voltage Harmonic components in current and voltage circuits Sub-harmonics in a.c. circuit Continuous magnetic induction of external origin Magnetic induction of external origin DC and even harmonics in a.c. circuit Odd harmonies in a.c. circuit Operation of accessories	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Test of power consumption *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Tests of effect of voltage dips and short interruptions *At 63.5 V, 110 V and 240 V, 50Hz*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Influence of Self Heating *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Influence of Heating *Single Phase: 0.12 W to 38.4 kW* *Three Phase: 0.36 W to 115.2 kW* *40 V to 320 V* *5 mA to 120 A*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002), IS13779 (1999) IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.9 (1993) AS 1284.5 (2000) EN50470-1:2006 EN50470-3:2006

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Conducted Radio Interference Emissions Measurement (Only CE) *Frequency Range* *0.15 MHz to 30 MHz* *0 to 70 dBmV*	IEC 60687 (1992) BS EN 60687-1993 CBIP-88 (February 2002) IS13779 (1999), IEC 61036 (2000) BS EN 61036:1997 IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Test of immunity to conducted disturbances, induced by radio frequency fields *Frequency range 150 kHz to 80 MHz* *EMF: 10 V rms* Standard: IEC 61000-4-6	IEC 61036 (2000) IEC 62052-11 (2003) AS 62052.11 (2005) IEC 62053-21 (2003) AS 62053.21 (2005) IEC 62053-22 (2003) AS 62053.22 (2005) IEC 62053-23 (2003) AS 62053.23 (2006) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Electrical fast transient burst test *0.5 kV to 4.0 kV*	IEC 60687 (1992) BS EN 60687-1993 IS13779 (1999) IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Immunity to electromagnetic HF field *Frequency Range 27 MHz to 2 GHz* *Field strength 30 V/m* *Testing performed in a GTEM cell*	IEC 60687 (1992) BS EN 60687-1993 IS13779 (1999) IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS14697 (1999) IEC61268 (1995) IEC 62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC 62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC 62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC 62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Damped oscillatory wave immunity test	IEC 62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC 62053-21 (2003) AS 62053.21 (2005) BS EN 62052-21:2003 IEC 62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC 62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Immunity to power frequency magnetic fields of external origin	EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Dry Heat Test *Ambient to +80 °C*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697(1999) IEC 61268(1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Cold Test *Ambient to –40 °C*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Immunity to Electrostatic Discharge	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Short time over voltage test	AS1284.5 (2000)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Damp Heat Cyclic test *Temperature +20 °C to +70 °C* *Relative Humidity 30% to 98%*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS13779 (1999) IS14697(1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Vibration test *Sweep frequency: 10 Hz to 5 kHz* *Displacement: 20 mm p-p* *Capacity 400 kgf* IEC60068-2-6 Shock test *Peak acceleration: 40 g* *Half sine pulse* *Time duration: 11 ms and 18 ms* IEC60068-2-27	CBIP-88 (February 2002) IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 IS13779 (1999) IS14697 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 NMI M6 (2004) AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Spring hammer test *0.22Nm* *0.35Nm* *0.50Nm* *0.70Nm* *1.00Nm*	CBIP-88 (February 2002) IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 IS14697 (1999) IS13779 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.5 (2000) AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Protection against dust IP5X, without suction Protection against water IPX1, IPX3 and IPX4, without suction. IEC 529 (1989) IS12063 (1987)	IEC60687 (1992) BS EN 60687-1993 IEC61036 (2000) BS EN 61036:1997 IS13779 (1999) CBIP 88: (February 2002) IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.9 (1993) AS1284.5 (2000) IEC 529 (1989) IS12063 (1987) EN50470-1:2006 EN50470-3:2006

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Static Watthour and VAR hour meters	Resistance to heat and fire. *Up to 1000 °C*	IEC 60687 (1992) BS EN 60687-1993 IEC 61036 (2000) BS EN 61036:1997 CBIP-88 (February 2002) IS14697 (1999) IS13779 (1999) IEC 61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.5 (2000) AS1284.9 (1993) IEC 60695-2-10(2000) IEC 60695-2-11(2000) EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Immunity to Earth Fault test *Three Phase: 0.36 W to 115.2 kW*	IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) AS1284.9 (1993) IS13779 (1999), IEC 61036 (2000) BS EN 61036:1997 EN50470-1:2006 EN50470-3:2006
Static Watthour and VAR hour meters	Short time over current test *20 A to 7000 A*	IEC60687 (1992) BS EN 60687-1993 IEC61036 (2000) BS EN 61036:1997 IS-13779 (1999) CBIP 88: February 2002 IS14697 (1999) IEC61268 (1995) IEC62052-11 (2003) AS 62052.11 (2005) BS EN 62052-11:2003 IEC62053-21 (2003) AS 62053.21 (2005) BS EN 62053-21:2003 IEC62053-22 (2003) AS 62053.22 (2005) BS EN 62053-22:2003 IEC62053-23 (2003) AS 62053.23 (2006) BS EN 62053-23:2003 AS1284.9 (1993) EN50470-1:2006 EN50470-3:2006
Measuring Instruments – Electrical measuring transducers	Environmental condition test	IEC 60068-2-3 IEC 60688 (2002)
	Variation due to Auxiliary Supply Voltage	IEC 60688 (2002)
	Variation due to Auxiliary Supply frequency	IEC 60688 (2002)
	Variation due to Ambient Temperature	IEC 60688 (2002)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Measuring Instruments – Electrical measuring transducers (continued)	Variation due to the frequency of the input quantity	IEC 60688 (2002)
	Variation due to input Voltage	IEC 60688 (2002)
	Variation due to input Current	IEC 60688 (2002)
	Variation due to power factor	IEC 60688 (2002)
	Variation due to output load	IEC 60688 (2002)
	Variation due to distortion of the input quantity	IEC 60688 (2002)
	Variation due to magnetic fields of external origin	IEC 60688 (2002)
	Variation due to unbalanced currents	IEC 60688 (2002)
	Variation due to the interaction between measuring elements	IEC 60688 (2002)
	Variation due to self-heating	IEC 60688 (2002)
	Variation due to continuous operation	IEC 60688 (2002)
	Permissible excessive inputs	IEC 60688 (2002)
	Continuous excessive inputs	IEC 60688 (2002)
	Excessive inputs of short duration	IEC 60688 (2002)
	Impulse voltage tests	IEC 60521(1988) IEC 60688 (2002)
	High frequency disturbance test	IEC 61000-4-12 IEC 60688 (2002)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Measuring Instruments – Electrical measuring transducers (continued)	Test for temperature rise	IEC 60688 (2002)
	Vibration test	IEC 60068-2-6 IEC 60688 (2002)
	Shock test	IEC 60068-2-27 IEC 60688 (2002)
	Voltage test, Insulation test and other safety requirements	IEC 61010-1(2001) IEC 60688 (2002)
	Electromagnetic Compatibility tests:	IEC 60688 (2002)
	Immunity to electrostatic discharges Fast transient burst test Test of immunity to electromagnetic RF fields Test of immunity to conducted disturbances induced by radio frequency fields Surge immunity test	
	Variation due to common mode interference	IEC 60688 (2002)
	Variation due to series mode interference	IEC 60688 (2002)
	Test of limits of Intrinsic Error	IEC 60688 (2002)
	Marking	IEC 60688 (2002)
END		