



Reflecting the Truth

CERTIFICATE OF CALIBRATION

Issued By :

YADAV MEASUREMENTS PVT. LTD.

PLOT No. 19-20, HARIDAS JI KI MAGRI
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C-035
Electro- Technical



0616

Certificate number: YMPL/91677/11416

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1.	Name and address of client :-	SONAA ENGINEERS PVT. LTD. 308-310 SUBHAM COMPLEX NEW FETEHPURA, UDAIPUR (RAJ.)										
2.	Reference:	Service request form number: 2006-2007/1609 Date: 17 th February, 2007 Date of the receipt of the equipment: 17 th February, 2007 Condition on item: Satisfactory										
3.	Calibration certificate:	Date of issue: 22 nd February, 2007 Date of calibration: 17 th February, 2007 Calibration due date: 17 th February, 2010										
4.	Description of equipment under calibration: -	Name: DIGITAL AMMETER Serial number: 214045 Model: SPM45 Make : MECO										
5.	Environmental conditions of measurements:	Temperature 25±2°C Relative humidity: ≤70%										
6.	Description of reference standards used :	<table border="1"> <thead> <tr> <th>Reference standard</th> <th>Calibration valid upto</th> <th>Traceability</th> <th>Parameters</th> </tr> </thead> <tbody> <tr> <td>Multi product calibrator, Model:5500A, Make: Fluke I/S No. 745</td> <td>6th December, 2007</td> <td>ETDC, Bangalore via YMPL standards</td> <td>a.c. current</td> </tr> </tbody> </table>			Reference standard	Calibration valid upto	Traceability	Parameters	Multi product calibrator, Model:5500A, Make: Fluke I/S No. 745	6 th December, 2007	ETDC, Bangalore via YMPL standards	a.c. current
Reference standard	Calibration valid upto	Traceability	Parameters									
Multi product calibrator, Model:5500A, Make: Fluke I/S No. 745	6 th December, 2007	ETDC, Bangalore via YMPL standards	a.c. current									

Remarks :-

- For k=2
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS/NABL requirements.
- For k≠2
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k, which for a t-distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.
- This report is specific for E.U.C. for environmental and other conditions mentioned in this report.
- The reported uncertainty applies only to the measured value and gives no indication of the long term stability of the device.
- The instrument has been calibrated for calibration points required by customer.
- The calibration due date has been mentioned as requested by customer in writing.

This Certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service and the NABL (Govt. of India). It provides traceability of measurement to recognized national standards, and to units of measurement realized at the National Physical Laboratory or other recognized national standards laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Checked by :

RMP RSD

Approved by :

Dinesh Palival

Sign :

Name :

DPZ

CERTIFICATE OF CALIBRATION

UKAS Accredited calibration laboratory No. 0616
NABL Accredited calibration laboratory No. C-035

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Yadav Measurements Pvt. Ltd., Udaipur

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7. Calibration procedure :OP/YMPL/03
Equipment under calibration was calibrated for a.c. current by injecting it from Multi product calibrator.
At least 6 measurements were made for each value and an average was reported. EUC was powered up from auxiliary supply 240V, 50Hz and warmed up for at least 15 Minute.
8. Results: The Digital ammeter has been calibrated for a.c. current measurement. The expanded uncertainty of our measurement is given in front of each measurement & calculated at 95 % CL. The results are as following.

9. Calibration results:-

Parameter	Range	Measured value	Standard value	± Expanded uncertainty (%)	Coverage factor(k)
A.C. current: (50Hz, sine wave)	0-5A	0.050A	0.0500A	1.11	2.00 *
		0.100A	0.1000A	0.59	2.00
		0.502A	0.5001A	0.15	2.00
		1.004A	1.0002A	0.16	2.00
		2.009A	2.0001A	0.14	2.00
		5.030A	5.0013A	0.12	2.00

REMARKS:

1. "*" indicates that the uncertainty quoted is dominated by the uncertainty due to resolution of the instrument being calibrated, for which a rectangular probability distribution has been assumed.

Checked by :

RMP RSD

Approved by :

