



Reflecting the Truth

CERTIFICATE OF CALIBRATION

Issued By :

YADAV MEASUREMENTS PVT. LTD.

PLOT No. 19-20, HARIDAS JI KI MAGRI
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Certificate number: YMPL/91681/11418

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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: 17th February, 2007
Date of the receipt of the equipment: 17th February, 2007
Condition on item: Satisfactory
3. Calibration detail :-
Date of issue : 22nd February, 2007
Date of calibration : 17th February, 2007
Due date of calibration: 17th February, 2010
4. Description of equipment under calibration:-
Name: TIME INTERVAL METER
Serial number: 0410V08-1151
Model: TI103A
Make: SELECTRON
5. Environmental conditions of measurements:
Temperature: 25±2°C
Relative humidity: ≤70%
6. Description of reference standards used :-

Reference standard	Calibration valid upto	Traceability	Parameters
stop watch (Racer) I/S no.:1612	8 th August, 2007	NPL New Delhi Via YMPL	Time
7. **Results:** - The TIME INTERVAL METER stop watch has been calibrated for time. The calibration procedure is given on next page.

Remarks :-

1. 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.
2. 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.
3. This report is specific for E U. C. for environmental and other conditions mentioned in this report.
4. The reported uncertainty applies only to the measured value and gives no indication of the long term stability of the device.
5. The instrument has been calibrated for calibration points required by customer.
6. 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 :

DPS

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8. Calibration procedure:-OP/YMPL/12

For calibration TIME INTERVAL METER reference stop watch (Racer) was used. Now for different time run the both EUC and stop watch. And stop both at same time and measure the time. At least 10 measurements were made for each calibration point and an average of these was reported in the results.

9. Calibration results: -

Measured value (in sec)	Standard value (in sec)	±Expanded uncertainty (in sec.) for coverage factor k=2
0.2384	0.22	0.6
2.902	2.90	0.6
5.099	5.06	0.6
10.20	10.24	0.6
20.12	20.09	0.6
50.22	50.19	0.6
100.1	100.17	0.6
200.2	200.15	0.6
500.2	500.21	0.6

Checked by :

RMP RSD

Approved by :

DPS