

(Formally: Prajyo Instrument & Maintenance Services)



18, 19, 22, 24, Rachana Industrial Complex, Plot No. 71/1B/14, Telco Road, Indrayani Corner, General Block, MIDC, Bhosari, Pune -411026. Mob.: 8975896690,

Mail: pims.pune@gmail.com, info@prajyo.com, Web: www.prajyo.com Calibration of : Electro - Technical, Mechanical, Thermal, Mass, Torque, Power, HV, CT/ PT CC-2503

CALIBRATION CERTIFICATE

Job No.: P1210108-14 Calibration Date: 08/01/2021 Issue Date.: 11/01/2021 Page No.:1 of 2

Certificate No.: PI210108-14-01 Receipt Date: 08/01/2021 Due Date.:07/01/2022

1.CALIBRATION FOR:

PLANETRIC POWER LLP

Calibration

: Lab

Location

MNO 3067 (Near Family Super Market), Pune-Nagar Road,

Cond. On Receipt

: Satisfactory

A/P Wagholi Tal-Haveli Pune Maharashtra

India 412207

2.DETAILS OF UNIT UNDER CALIBRATION (UUC):

: Micro Ohm Meter

RANGE

: Selectable

MAKE : TESTRONIX

RESOLUTION ULR NO.

: ULR-CC250321000000208F

MODEL SR. No.

NAME

: 53-C : 171161

TYPE

: Digital

: Selectable

3. DETAILS OF STANDARD INSTRUMENTS USED FOR CALIBRATION (TRACEABILITY)

			ZIDICITION (IIIII)	
NAME	ID. NO.	CALIBRATED BY	CERTIFICATE NO.	VALID UPTO
Digital Multimeter	PI/58	CC-2503	PI200303-1-8	02/03/2021
Multi-Product Calibrator	PI/97	CC-2503	PI190915-4-1	14/09/2021

- 4. WORK INSTRUCTION NO.: CP-T/20 REFERANCE STANDARD NO.: NA
- 5. ENVIRONMENTAL DETAILS:

Temperature: 25 ± 4 °C Relative Humidity: 30 to 75 %RH

6 CALIBRATION RESULTS: Discipline: Group :- Electro-Technical : Resistance

Sr.	Range	Input Voltage	Output	Calculated Avg	Reading	Error	Expanded	Coverage
No.		on Master	Current on Master	Reading of Master	on UUC		Uncertaint y (Ue)	Factor
1	10000	212.077 mV	0.991 A	214.003 μΩ	214	-0.0030 μΩ	±0.0090 μΩ	2
2	1999 μΩ	1912.67 mV	0.991 A	1930.040 μΩ	1930	-0.040 μΩ	±1.67 μΩ	2
3	19.99 mΩ	1.9895 mV	0.990 A	2.0096 mΩ	2.01	$0.00040~\mathrm{m}\Omega$	±0.0061 mΩ	2
4	19.99 11122	19.5620 mV	0.990 A	19.7596 mΩ	19.76	$0.00040~\mathrm{m}\Omega$	±0.017 mΩ	2
5		18.3661 mV	0.937 A	19.6010 mΩ	19.6	-0.00100 mΩ	±0.060 mΩ	2
6	199.9 mΩ	176.8239 mV	0.942 A	187.7111 mΩ	187.7	-0.011 mΩ	±0.0076 mΩ	2
7	1999 mΩ	187.703 mV	0.100 A	1877.030 mΩ	1877	-0.030 mΩ	±1.24 mΩ	2
8	19.99 Ω	188.42 mV	10.04 mA	18.77 Ω	18.77	0.00 Ω	±0.0091 Ω	2
9	199.9 Ω	187.706 mV	1.00 mA	187.706 Ω	187.7	-0.0060 Ω	±0.13 Ω	2
10	1999 Ω	189.0351 mV	100.7 μΑ	1877.2105 Ω	1877	-0.21 Ω	±1.34 Ω	2
11	19.99 k Ω	187.719 mV	10.0 μΑ	18.772 Ω	18.77	-0.0020 Ω	±0.017 Ω	2







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Calibration of : Electro - Technical, Mechanical, Thermal, Mass, Torque, Power, HV, CT/ PT



CC-2503

Job No.: PI210108-14

Calibration Date: 08/01/2021

Issue Date .: 11/01/2021

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Receipt Date: 08/01/2021

Due Date.:07/01/2022

Certificate No.: PI210108-14-01

7. REMARKS:

1. UUC Stands for Unit Under Calibration

2. A sticker indicating "CALIBRATION STATUS" has been affixed on the UUC.

3. The standards used for calibration were calibrated by using reference standard traceable to National/International standard

4. Calibration points were selected as per customer's specifications.

5. The Calibration results reported in this certificate are related to this item only and valid at the time of and under stated condition of the measurement.

6. The certificate should not be reproduced expect in full without the prior permission of Laboratory.

7. The reported expanded uncertainty of measurement is calculated at approximately 95.45% of confidence level

Suraj Chavan calibrated By



S.E. Shinde R.B. kasar Approved By F: CP-T/20

---- End of Certificate ----



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CC-2503

CALIBRATION CERTIFICATE

Job No.: P1210108-14 Calibration Date: 08/01/2021 Issue Date.: 11/01/2021 Page No.:1 of 4

Receipt Date: 08/01/2021 Due Date.: 07/01/2022 Certificate No.: PI210108-14-02

1.CALIBRATION FOR:

PLANETRIC POWER LLP

Calibration Location

: Lab

MNO 3067 (Near Family Super Market), Pune-Nagar Road,

Cond. On Receipt : Satisfactory

A/P Wagholi Tal-Haveli Pune Maharashtra

India 412207

NAME

2.DETAILS OF UNIT UNDER CALIBRATION (UUC):

: Automatic Instrument Transformer Test Set **RANGE**

: 1A, 5 A & 110 V

MAKE : Eltel

: 63.5 V AC @ 50 Hz

MODEL : AITTS PLUS

ULR NO

: ULR-CC250321000000209F

Sr. No. : 20188615

3. DETAILS OF STANDARD INSTRUMENTS USED FOR CALIBRATION (TRACEARILITY)

THE INSTRUMENTS USED FOR CADIDRATION (TRACEABILITY)									
NAME	ID. NO.	CERTIFICATE NO.	CALIBRATED BY	VALID UPTO					
Automatic Instrument Transformer Test Set	PI/101	CC/ECL/1784/18-19	CC-2287	08/01/2021					

4. WORK INSTRUCTION NO.: CP-T/28 REFERANCE STANDARD IS 2705 (PART 2): 1992

5. ENVIRONMENTAL DETAILS:

Temperature: 25 ± 4 °C Relative Humidity: 30 to 60 %RH

6. CALIBRATION RESULTS: 1) 1 A CT Test @ 50 Hz (Class -0.1) Discipline: Group :- Electro-Technical: Electrical Equipment

SR.	Nominal	Rated Primary Current %	Master Reading		UUC Reading	
NO.	Ratio	of FSD	RE (%)	PE (min)	RE (%)	PE (min)
ĺ	1A / 1A	120 %	-0.0300	1.02	-0.041	1.05
2		100 %	-0.0312	1.06	-0.042	1.06
3		20 %	-0.0345	1.22	-0.053	1.33
4		5 %	-0.0150	3.14	-0.019	3.90
5		1 %	-0.114	5.11	-0.125	5.27

2) 1 A CT Test @ 50 Hz (Class -0.5) Discipline: Group :- Electro-Technical: Electrical Equipment

SR.		Poted Primary Comment 9/				
	Nominal	Rated Primary Current %	Master Reading		UUC Reading	
NO.	Ratio	of FSD	RE (%)	PE (min)	RE (%)	PE (min)
1	1A / 1A	120 %	-0.137	5.12	-0.141	5.1
2		100 %	-0.138	5.23	-0.142	5.0
3		20 %	-0.200	10.24	-0.211	11.1
4		5 %	-0.327	15.12	-0.340	16.0
5		1 %	-0.610	30.15	-0.612	31.0

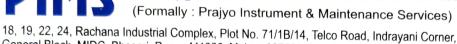
UUC: Unit Under Calibration



S.E. Shinde / R.B. Kasar Approved By F: CP-T/28

Suraj Chavan Calibrated By





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Calibration of : Electro - Technical, Mechanical, Thermal, Mass, Torque, Power, HV, CT/ PT



CC-2503

Job No.: PI210108-14

Calibration Date: 08/01/2021

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Due Date.: 07/01/2022

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CALIBRATION RESULTS: 3) 1 A CT Test @ 50 Hz (Class 1.0) Discipline:Group :- Electro-Technical: Electrical Equipment

SR.	SR. Nominal Ratio	Rated Primary Current %	Master Reading		UUC Reading	
110.		of FSD		PE (min)	RE (%)	PE (min)
l	1 A / 1A	120 %	-0.600	8.96	-0.612	9.1
2		100 %	-0.605	8.97	-0.623	10.0
3		20 %	-0.589	10.22	-0.559	11.3
4		5 %	-0.331	34.80	-0.340	35.1
5		1 %	-0.145	50.30	-0.191	52.4

1) 5 A CT Test @ 50 Hz (Class 0.1) Discipline: Group :- Electro-Technical: Electrical Equipment

SR.	SR. Nominal Ratio	current /6		Master Reading		teading
110.		of FSD	RE (%)	PE (min)	RE (%)	PE (min)
1	5 A / 5A	120 %	-0.0550	3.12	-0.0600	3.25
2		100 %	-0.0590	3.15	-0.0623	3.24
3		20 %	-0.0804	7.15	-0.0945	7.50
4		5 %	-0.105	10.40	-0.113	10.53
5		1 %	-0.236	16.45	-0.298	16.90

2) 5 A CT Test @ 50 Hz (Class 0.5) Discipline:Group :- Electro-Technical: Electrical Equipment

		, , ,						
SR. NO.	Nominal Ratio	inal Ratio Rated Primary Current % of FSD	Master	Reading	UUC Reading			
NO.	NO.	01 FSD	RE (%)	PE (min)	RE (%)	PE (min)		
1	5 A / 5A	120 %	-0.400	11.23	-0.441	11.27		
2		100 %	-0.414	11.25	-0.445	11.25		
3		20 %	-0.550	15.35	-0.581	15.99		
4		5 %	-1.026	20.89	-1.090	21.00		
5		1 %	-1.059	30.25	-1.101	30.98		

3) 5 A CT Test @ 50 Hz (Class 1.0) Discipline Group :- Electro-Technical: Electrical Equipment

SR. NO. Nominal Ratio		Rated Primary Current %	Master	Reading	UUC R	Reading
	of FSD	RE (%)	PE (min)	RE (%)	PE (min)	
1	5 A / 5A	120 %	-0.745	19.32	-0.798	20.88
2		100 %	-0.819	19.76	-0.789	20.57
3		20 %	-1.045	25.38	-1.101	26.24
4		5 %	-1.025	36.95	-1.155	36.88
5		1 %	-2.017	77.52	-2.101	78.90





S.E. Shinde / R.B. Kasar Approved By

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Calibration of : Electro - Technical, Mechanical, Thermal, Mass, Torque, Power, HV, CT/ PT

CC-2503

Job No.: PI210108-14

Calibration Date: 08/01/2021

Issue Date.: 11/01/2021

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Certificate No.: PI210108-14-02

1) 110V / 110V PT Test @ 50 Hz (Class 0.1) Discipline:Group :- Electro-Technical: Electrical Equipment

00 210							
SR. NO.	Nominal Ratio	Rated Primary Voltage % of FSD	Master Reading		UUC Reading		
		0113D	RE (%)	PE (min)	RE (%)	PE (min)	
1	110 V /110V	120 %	-0.0130	-0.08	-0.015	-0.19	
2		100 %	-0.0131	-0.11	-0.016	-0.15	
3		80 %	-0.0140	-0.16	-0.014	-0.18	

2) 110V / 110V PT Test @ 50 Hz (Class 0.5) Discipline:Group :- Electro-Technical: Electrical Equipment

Table 1 - Brown Teelinical, Electrical Equipment						
SR. NO.	Nominal Ratio	Rated Primary Voltage % of FSD	Master Reading		UUC R	Reading
		0113D	RE (%)	PE (min)	RE (%)	PE (min)
1	110 V /110V	120 %	0.200	-1.50	0.199	-1.71
2		100 %	0.200	-1.60	0.197	-1.73
3		80 %	0.198	-1.77	0.202	-1.79

3) 110V / 110V PT Test @ 50 Hz (Class 1.0) Discipline:Group :- Electro-Technical: Electrical Equipment

SR. NO.	Nominal Ratio	Rated Primary Voltage %	Master Reading		UUC Reading	
		of FSD	RE (%)	PE (min)	RE (%)	PE (min)
1	110 V /110V	120 %	-0.590	-4.05	-0.597	-4.12
2		100 %	-0.592	-3.92	-0.598	-4.11
3		80 %	-0.595	-4.99	-0.599	-5.02

1) 63.5V / 63.5V PT Test @ 50 Hz (Class 0.1) Discipline:Group :- Electro-Technical: Electrical Equipment

1 1 Teetheur Equipment						
SR. NO.	Nominal Ratio	Rated Primary Voltage % of FSD	Master Reading		UUC Reading	
		OFFSD	RE (%)	PE (min)	RE (%)	PE (min)
1	63.5 V /63.5V	120 %	-0.0150	-0.59	-0.0147	-0.88
2		100 %	-0.0152	-0.60	-0.0146	-0.83
3		80 %	-0.0170	-0.65	-0.0148	-0.77

2) 63.5V / 63.5V PT Test @ 50 Hz (Class 0.5) Discipline:Group :- Electro-Technical: Electrical Equipment

SR. NO.	Nominal Ratio	Rated Primary Voltage % of FSD	Master Reading		UUC Reading	
		0113D	RE (%)	PE (min)	RE (%)	PE (min)
1	63.5 V /63.5V	120 %	-0.199	-1.90	0.196	-1.87
2		100 %	-0.195	-1.94	0.198	-1.86
3		80 %	-0.197	-1.80	0.199	-1.94

Suraj Chavan Calibrated By



S.E. Shinde / R.B. Kasar Approved By F: CP-T/28



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CC-2503

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Calibration of : Electro - Technical, Mechanical, Thermal, Mass, Torque, Power, HV, CT/ PT

Calibration Date: 08/01/2021

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Certificate No.: PI210108-14-02

Job No.: PI210108-14 Receipt Date: 08/01/2021

Due Date .: 07/01/2022

3) 63.5V / 63.5V PT Test @ 50 Hz (Class 1.0) Discipline:Group :- Electro-Technical: Electrical Equipment

,			Master Reading		UUC Reading	
SR. NO. Nominal Ratio		Rated Primary Voltage % of FSD	RE (%) PE (min)		RE (%)	PE (min)
1	63.5 V /63.5V	120 %	-0.590	-3.89	-0.593	-4.10
2	03.5 ¥ 703.5 ¥	100 %	-0.592	-3.85	-0.594	-4.11
3		80 %	-0.601	-3.95	-0.603	-4.23

7. REMARKS:

- 1. A sticker indicating "CALIBRATION STATUS" has been affixed on the UUC.
- 2. The standards used for calibration were calibrated by using reference standard traceable to National/International standard.
- 3. Expanded Uncertainty for class 0.1 to 0.5 RE = \pm 0.008 % & PE = \pm 0.5 min & class 1.0 RE = \pm 0.011 % & PE = \pm 0.5 min calculated at 95.45 % of confidence level where coverage factor k = 2.
- 4. Calibration points were selected as per customer's specifications.
- 5. The Calibration results reported in this certificate are related to this item only and valid at the time of and under stated condition of the measurement

Suraj Chavan Calibrated By



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---- End of Certificate ----



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CC-2503

CALIBRATION CERTIFICATE

 Job No.:P1210108-14
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 Receipt Date::08/01/2021
 Due Date::07/01/2022
 Certificate No.:P1210108-14-3

1. CALIBRATED FOR

PLANETRIC POWER LLP Calibration Location :Lab

MNO 3067 (Near Family Super Market), Pune-Nagar Road, A/P Cond. On Receipt : Satisfactory

Wagholi Tal-Haveli Pune Maharashtra India 412207

2. DETAILS OF UNIT UNDER CALIBRATION (UUC):

Nomenclature : HV Tester Range : 0 to 2.5 kV / 0 to 5 kV AC

Make : A E

 ULR NO
 : ULR-CC250321000000210F
 Resolution/Least Count
 : 0.01 kV

 Serial No.
 : 08/17/205083/1
 Type
 : Digital

3. DETAILS OF STANDARD INSTRUMENTS USED FOR CALIBRATION (TRACEABILITY)

NAME	ID. NO.	CERTIFICATE NO.	CALIBRATED BY	VALID UPTO
Digital Multimeter	PI/58	PI200303-1-8	CC-2503	02/03/2021
H V Divider with KV Meter	PI/99	CC/ECL/1782/18-19	CC-2287	25/12/2021

4. WORK INSTRUCTION NO.: CP-T/26

REFERANCE STANDARD NO.: NA

5. ENVIRONMENTAL DETAILS:

Temperature: 25 ± 4 °C Relative Humidity: 50 ± 20 %RH

6. CALIBRATION RESULTS:

CALIBRATION RESULTS: AC Voltage @ 50 Hz : Range : 0 to 2.5 /0.01 KV AC Discipline: Group :- Electro-Technical : Alternative Voltage

Sr. No.	Set Value on UUC	Average Reading on STD	Error	Expanded Uncertainty (%)	Coverage Factor (k)
	kV	kV	kV	% Rdg	
1	0.50	0.50	0.00	±2.417	2
2	1.00	1.01	-0.01	±2.404	2
3	1.50	1.52	-0.02	±2.418	2
4	2.00	2.03	-0.03	±2.420	2
5	2.50	2.47	0.03	+2 428	2

CALIBRATION RESULTS: AC Voltage @ 50 Hz : Range : 0 to 5 /0.01 KV AC Discipline: Group :- Electro-Technical : Alternative Voltage

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Sr. No.	Set Value on UUC	Average Reading on STD	Error	Expanded Uncertainty (%)	Coverage Factor (k)
	kV	kV	kV	% Rdg	
1	1.00	1.02	-0.02	±2.410	2
2	2.00	2.01	-0.01	±2.414	2
3	3.00	3.04	-0.04	±2.435	2
4	4.00	4.02	-0.02	±2.421	2
5	5.00	5.05	-0.05	±2.437	2

7. REMARK

1. UUC Stands for Unit Under Calibration.

2. A sticker indicating "CALIBRATION STATUS" has been affixed on the UUC.

3. The standards used for calibration were calibrated by using reference standard traceable to National/International standard

4. Calibration points were selected as per customer's specifications.

5. The Calibration results reported in this certificate are related to this item only and valid at the time of and under stated condition of the

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Suraj Chavan

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S.E.Shinde / D.S.Deshpande R.B Kasar

Approved By

F:CP-T/2