



# Precise Calibrations (P) Ltd.

(N.A.B.L. Accredited Laboratory)  
एन.ए.बी.एल. द्वारा प्रमाणित प्रयोगशाला  
Electro-Technical Calibration Services  
विद्युत तकनीकी अंशांकन सेवाएं

Basement, Plot No. 85, Sector - 5, Rajendra Nagar, Sahibabad, Ghaziabad (U.P.) - 201005  
Ph : +91 0120-4106400, +91 8744050381  
Email : precisecalibrations@gmail.com, calibrations@evertechgroup.com



NABL ACCREDITED LABORATORY  
No. CC - 3012

## CALIBRATION CERTIFICATE

ULR No. :	CC301223000000065F	Calibration Date :	14-04-2023
Certificate No.:	PCPL/22-23/04/0003-01	Calibration Recommended Date:	13-04-2024
Location:	Lab	Certificate Issue Date:	17-04-2023
Service Request No.:	PCPL/SRF/22-23/04/0003	Service Request Date:	14-04-2023
Condition on Receipt:	OK	Date of Receipt:	14-04-2023

### CUSTOMER DETAILS

Name & Address:	M/s. Oasis Techno Engineers Pvt. Ltd. B42, 2nd floor , Sector -65 Noida, UP-201301
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### DESCRIPTION OF INSTRUMENT FOR CALIBRATION

Name of Instrument :	3 Phase Relay Test Kit
Make:	ISA
Model/ Type:	DRTS64
Serial No./ Instrument ID:	16-10330101

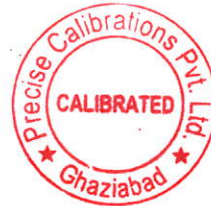
### Environmental Conditions

Temperature :	25±4 °C	Humidity:	30% to 75%
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### DETAILS OF MASTER INSTRUMENTS

Name of Reference Standard:	6.5 Digit Precision Multimeter
Make & Model:	Fluke & 8846A
Serial No.:	2510012
Traceable To:	Anshaankan (India) Pvt. Ltd., Noida
Work Instruction No.:	PCPL/WI-01/008
Reference Standard:	IS 13875

Note: All the instruments used are traceable to national standard through reference standards and their calibrations are valid.



Calibrated By:	<i>Yogesh</i>	Issued By:	<i>Bareilly AS</i>
	Calibration Engineer		Authorized Signatory



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## ELECTRO-TECHNICAL CALIBRATION RESULTS

### 1. AC Voltage Measurement @ 50 Hz :-

Output Terminals	UUC (V)	STD (V)	(±) Reported Uncertainty (%)
V1-Vn	10.000	9.99446	0.11
	50.000	49.9930	0.11
	63.500	63.4891	0.11
	110.00	110.002	0.11
	240.00	239.998	0.11
	300.00	300.003	0.11
V2-Vn	10.000	9.99669	0.11
	50.000	49.9877	0.11
	63.500	63.4825	0.11
	110.00	109.983	0.11
	240.00	239.948	0.11
	300.00	299.954	0.11
V3-Vn	10.000	9.99740	0.11
	50.000	49.9988	0.11
	63.500	63.4968	0.11
	110.00	110.009	0.11
	240.00	240.024	0.11
	300.00	300.037	0.11
V4-Vn	10.000	9.99682	0.11
	50.000	49.9924	0.11
	63.500	63.4885	0.11
	110.00	109.992	0.11
	240.00	239.992	0.11
	300.00	300.003	0.11



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	Calibration Engineer		Authorized Signatory



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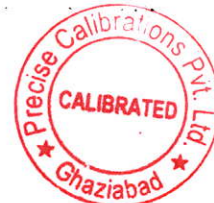


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## 2. DC Voltage Measurement :-

Output Terminals	UUC (V)	STD (V)	(±) Reported Uncertainty (%)
V1-Vn	10.00	9.98373	0.02
	50.00	49.9691	0.02
	63.50	63.4710	0.02
	110.0	109.9606	0.02
	240.0	239.938	0.02
	300.0	299.937	0.02
V2-Vn	10.00	9.97390	0.02
	50.00	49.9488	0.02
	63.50	63.4446	0.02
	110.0	109.9190	0.02
	240.0	239.864	0.02
	300.0	299.848	0.02
V3-Vn	10.00	9.99215	0.02
	50.00	49.9873	0.02
	63.50	63.4916	0.02
	110.0	109.9925	0.02
	240.0	240.008	0.02
	300.0	300.032	0.02
V4-Vn	10.00	9.99216	0.02
	50.00	49.9778	0.02
	63.50	63.4783	0.02
	110.0	109.9657	0.02
	240.0	239.949	0.02
	300.0	299.954	0.02



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### 3. AC Current Measurement @ 50 Hz

Output Terminals	UUC (A)	STD (A)	(±) Reported Uncertainty (%)
O/P- A I1-In	1.000	0.986488	0.12
	2.000	2.00429	0.12
	5.000	5.00649	0.12
	10.00	10.01306	0.12
O/P- A I2-In	1.000	0.987020	0.12
	2.000	2.00403	0.12
	5.000	5.00762	0.12
	10.00	10.01637	0.12
O/P- A I3-In	1.000	0.985982	0.12
	2.000	2.00347	0.12
	5.000	5.00671	0.12
	10.00	10.01286	0.12
O/P- B I1-In	1.000	0.986692	0.12
	2.000	2.00346	0.12
	5.000	5.00718	0.12
	10.00	10.01458	0.12
O/P- B I2-In	1.000	0.986002	0.12
	2.000	2.00320	0.12
	5.000	5.00512	0.12
	10.00	10.01294	0.12
O/P- B I3-In	1.000	0.985644	0.12
	2.000	2.00228	0.12
	5.000	5.00416	0.12
	10.00	10.00820	0.12



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#### 4. DC Current Measurement :-

Output Terminals	UUC (A)	STD (A)	(±) Reported Uncertainty (%)
O/P- A I1-In	1.000	1.001085	0.13
	2.000	2.00002	0.13
	5.000	4.99512	0.13
	10.00	9.99028	0.13
O/P- A I2-In	1.000	0.999750	0.13
	2.000	2.00008	0.13
	5.000	4.99927	0.13
	10.00	9.99623	0.13
O/P- A I3-In	1.000	0.997571	0.13
	2.000	1.99690	0.13
	5.000	4.99374	0.13
	10.00	9.99864	0.13
O/P- B I1-In	1.000	1.007140	0.13
	2.000	2.00632	0.13
	5.000	5.00248	0.13
	10.00	9.99854	0.13
O/P- B I2-In	1.000	0.998015	0.13
	2.000	1.99773	0.13
	5.000	4.99504	0.13
	10.00	9.99228	0.13
O/P- B I3-In	1.000	0.997316	0.13
	2.000	1.99628	0.13
	5.000	4.99150	0.13
	10.00	9.99362	0.13



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## 5. Auxillary DC Voltage Measurement :-

Output Terminals	UUC (V)	STD (V)	(±) Reported Uncertainty (%)
Auxillary DC	10	11.9813	0.10
	50	50.0193	0.10
	64	63.5508	0.10
	100	100.0281	0.10
	110	109.9663	0.10
	260	259.407	0.10

## 6. Frequency Measurement @ 100V :-

Output Terminals	UUC (Hz)	STD (Hz)	(±) Reported Uncertainty (%)
V1-Vn	10.000	10.00002	0.06
	40.000	40.0003	0.06
	50.000	50.0004	0.06
	60.000	60.0004	0.06
	100.00	100.0008	0.06
	1.0000 k	1.000007 k	0.06
V2-Vn	10.000	10.00003	0.06
	40.000	40.0002	0.06
	50.000	50.0002	0.06
	60.000	60.0003	0.06
	100.00	100.0006	0.06
	1.0000 k	1.000005 k	0.06
V3-Vn	10.000	10.00004	0.06
	40.000	40.0002	0.06
	50.000	50.0003	0.06
	60.000	60.0006	0.06
	100.00	100.0006	0.06
	1.0000 k	1.000003 k	0.06

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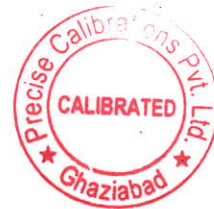


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## Remarks:

- 1) \* UUC: Unit under Calibration.
- 2) This Certificate refers only to the particular item submitted for the calibration.
- 3) The confidence level is 95% (approximately.) at  $k=2$ .
- 4) The results reported in this Certificate are Valid at the time and under the stipulated conditions of measurement in laboratory only.
- 5) This certificate shall not be reproduced, except in full, unless written permission for the publication of an approved abstract has been obtained from the Director of M/s Precise Calibrations Pvt. Ltd.
- 6) PCPL is responsible for all the information in the calibration certificate, except that provided by the customer, information supplied by the customer can affect the validity.

\*\*\* End of Certificate \*\*\*



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