

REPORT No 11684

Date of issue: June 1, 2026

Status: FINAL REPORT

CLAMP METER CALIBRATION

Program: SQ-7306.V9

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1. FOREWORD

This report summarizes the results of the **SQ-7306.V9** proficiency testing program on the assessment of clamp meter calibration results. This program is conducted in a bilateral format, following a sequential participation design as described in clause A.2.3 of ISO/IEC 17043: 2023 (Types of PT schemes).

South Quality conducted the testing program in April 2026 with the aim of assessing the laboratory's ability to competently perform the designated calibration.

2. ORGANIZATION

Program Coordinator: Eng. Esteban Di Marco
Assistant Technician: Valentyn Kravchenko
Statistics: Lic. Manuel Tozaki
Supervision: Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to determine the resulting accuracy of clamp meter calibration using the routine procedure of the participating laboratory.

To verify this, batches of clamp meters have been selected.

Participants in this program have not been informed in advance about the expected accuracy of the samples they receive.

4. PARTICIPANT

Company: **Energy Distributor Co.Ltd.**
Laboratory: **Energy Distributor Lab For Measurement and Calibration**
Country: Kingdom of Saudi Arabia
Client ID: S325
Contact person: Jamsheed KP
Technical Manager of Calibration Department
tmc@ed.com.sa

5. HOMOGENEITY

A homogeneity study is not applicable, as the interlaboratory comparison is carried out on the same item, which is measured by both the participating laboratory and the reference laboratory.

6. SAMPLE INFORMATION

The following instrument was sent for calibration:

Batch:	LCA3133
Sample ID:	06
Characteristics:	Digital clamp meter Trademark: UNI-T Model: UT200B+

7. IMAGES



8. ASSIGNED VALUES

RANGE	CALIBRATION POINT	RESULT	U (k = 2)
2.000 A	2.000 A	2.007	0.0006
20.00 A	20.00 A	20.01	0.0213
200.0 A	200.0 A	200.1	0.6461

9. PARTICIPANT RESULTS (SEE APPENDIX B)

RANGE	CALIBRATION POINT	RESULT	U (k = 2)
2.000 A	2.000 A	2.008	0.0017
20.00 A	20.00 A	19.99	0.0358
200.0 A	200.0 A	200.0	1.0919

10. STATISTICS

The results must be treated as quantitative.

According to B.4.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compared using E_n :

$$E_n = \frac{x - X}{\sqrt{U_{\text{lab}}^2 + U_{\text{ref}}^2}}$$

x is the participant's result

X is the assigned value

U_{lab} is the expanded uncertainty of a participant's result

U_{ref} is the expanded uncertainty of the reference laboratory's assigned value

The performance evaluation of each sample is carried out with the following criteria:

$|E_n| \leq 1.0$ indicates "satisfactory" performance and generates no signal;

$|E_n| > 1.0$ indicates "unsatisfactory" performance and generates an action signal;

11. EVALUATION OF PERFORMANCE

RANGE	CALIBRATION POINT	PARTICIPANT RESULT	ASSIGNED VALUE	$ E_n $	PERFORMANCE RESULT
2.000 A	2.000 A	2.008	2.007	0.55	SATISFACTORY
20.00 A	20.00 A	19.99	20.01	0.48	SATISFACTORY
200.0 A	200.0 A	200.0	200.1	0.08	SATISFACTORY

12. CONCLUSIONS

The overall performance of this **SQ-7306.V9** program from the participant laboratory **Energy Distributor Co.Ltd. - Energy Distributor Lab For Measurement and Calibration**, is **SUFFICIENT** based on expected results.

The criteria used for the evaluation of the overall performance are the following:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

APPENDIX A

INSTRUCTIONS



INSTRUCTIONS

PROGRAM:	Clamp meter calibration
CODE:	SQ-7306
VERSION:	9
STANDARD:	-
COORDINATOR:	Eng. Esteban Di Marco (edimarco@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-7306.V9** program.

2 - Standard/Method

Routine - Procedure used by each participating laboratory

3 - Tests involved

TEST	PARAMETERS
Clamp meter calibration	Calibration points: 2-20-200-500A (50% + 90%)

4 - Samples

CODE	SAMPLE	QUANTITY
LCA3133-06	Digital clamp meter Trademark: UNI-T Model: UT200B+	1

5 - Notes

- a) Being a bilateral program, there is no deadline for submitting results.
- b) The participant must submit the results using the usual report employed by their laboratory.
- c) The samples shall be handled as routine laboratory samples, with all testing, documentation, and reporting carried out in accordance with the participant laboratory's internal procedures.
- d) Samples must be retained until the end of the program, which concludes with the submission of the final report.
- e) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (REPORT #CN2026-04-07459E)



Energy Distributor Lab
for Measurement and Calibration
Branch of Energy Distributor Co. Ltd.



F-RPT-01
Issue: C1/ Rev. No. 03

CERTIFICATE OF CALIBRATION

ISSUED BY ENERGY DISTRIBUTOR LAB FOR MEASUREMENT AND CALIBRATION

SUBMITTED BY:
PT South Quality SAS
Argentina

Description	: Digital Clamp Multimeter	Date Received	: 29-March-2026
Make	: UNI-T	Date Calibrated	: 02-April-2026
Model No	: UT200B+	Due Date	: 02-April-2027
Serial Number	: C243490473	Temp/ Humidity	: 23.7 °C / 25.0 % RH
ID Number	: NA	Job Order No	: 07459

Energy Distributor Lab for Measurement and Calibration (EDLMC) certifies that the above listed instrument has been calibrated conforms to ISO/IEC 17025:2017 using Energy Distributor Lab for Measurement and Calibration applicable procedure. This calibration is traceable to the International System of Units (SI), through National Metrology Institute.

The estimated uncertainty of measurement to be associated with the results is calculated at a confidence level of approximately 95% with a coverage factor of k=2 and is indicated in S.I. Units.

This report may not be reproduced, except in full, without permission from Energy Distributor Lab for Measurement and Calibration.

When providing statements of conformity and unless agreed elsewhere in writing, the laboratory follows Binary statement for Simple Acceptance Rule as stated in ILAC G8:09/2019 as a decision rule.

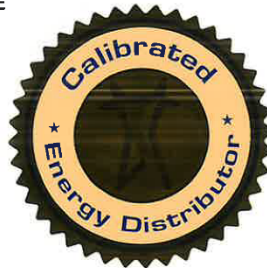
Issued Date On : April 02, 2026

Certificate No : CN2026-04-07459E

Calibrated by:



Calibration Engr./Tech. (Stamp)



Approved Signatory:



Technical Manager

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www.ed.com.sa

Address: Al Arid District - Abi Jaafar Al Batti Street
P. O. Box 226 Riyadh 11798 Kingdom of Saudi Arabia

مختبر موزع الطاقة للقياس والمعايرة
فرع شركة موزع الطاقة المحدودة

Report of Calibration

 F-RPT-01
 Rev No. 2

Description : Digital Clamp Multimeter	Date Received : 29-March-2026
Make : UNI-T	Cal Date : 02-April-2026
Model No : UT200B+	Due Date : 02-April-2027
ID Number : NA	Temperature : 23.7 °C
Serial Number : C243490473	Humidity : 25.0 % RH
Reference No : CA-05777	Job Order No : 07459
Range : As per UNI-T Manual	
Location of Calibration: EDLMC Laboratory	

CONDITION OF INSTRUMENT:

As Received Condition : In Good Condition
 As Delivered Condition : Calibrated and Cleaned

CALIBRATION METHOD:

EDLMC/CM/E/04, Calibration of AC Current as a Source.

REMARKS:

1. As found readings.
2. This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.
3. Unless otherwise specified the Measurement Data reported is "As-Found"-Without any adjustment.
4. Suggested due date is given based on customer requirements.
5. Calibration certificates without signatures are not valid.
6. This calibration certificate may contain data that is not covered by the IAS / SAC Scope of Accreditation. These have been included for completeness of calibration results.
7. The unaccredited test points, where applicable, are indicated by an asterisk(*), or confined to clearly marked sections.
8. The expanded uncertainty in this certificates are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement.
9. Revision Date : NA
10. As per ILAC-G8:09/2019 Decision Rules and Statement of Conformity our guidelines.
The Decision Rule: Simple Acceptance :Acceptance without considering Measurement Uncertainty."PASS" indicates measured value is within or on threshold of Tolerance limit/Accuracy."FAIL" indicates measured value is beyond threshold of Tolerance limit/Accuracy. "-" indicates no tolerance limit/Accuracy furnished.
11. EDLMC has no responsibility of the light blue colored information. (Provided by the Customer)

EDLMC STANDARD/S USED:

ID Number	Certificate No.	Due Date
STD-0029	EVL1085265	7-Oct-2027
STD-0046C	202511897	6-Jul-2027

CALIBRATION RESULT/S:

Test Description	Standard Reading	UUC Reading	Error	± Tolerance	± Expanded Uncertainty	Status
AC CURRENT MEASUREMENT TEST						
2.000 A @ 60 Hz	2.0000	2.008	0.0080		0.0017 A	
20.00 A @ 60 Hz	20.000	19.99	-0.010		0.0358 A	
200.0 A @ 60 Hz	200.00	200.0	0.00		1.0919 A	

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



Calibration Engr./Tech. (Stamp)

Certificate No : CN2026-04-07459E
 Issued Date On : April 02, 2026

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----- END OF REPORT -----