

Calibration Certificate

Al Takamul Yard North Rumailah, Iraq

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Date of Issue: September 3, 2024

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REQUEST NUMBER	: By Mail	APPROVED BY	Y. ALCHALQA QC
JOB NUMBER	: QC/JN/24/00341		
CERTIFICATE NUMBER	: QC240903-19		

CUSTOMER DETAILS

Name : **Halliburton Worldwide IRAQ**
Department : Sperry
Address : Western Burjesia, Oil Street, Zubair, South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Insulation Tester**
Type of Indication : Digital
Manufacturer : Megger
Model : MIT310
Serial Number : 101296152
SAP No. : 300184480



Calibrated Range :
Testing Voltage (DC) : 250V - 500V - 1000V
AC/DC Voltage : 0 to 600 V
Resistance : 1 Ω to 999 M Ω
Continuity Testing Resistance : 2 Ω

As Found : In Tolerance
Calibrated By : Hussein Alaa
Calibration Date : September 3, 2024
Calibration Due : **September 2, 2025**
Last Inspection Date : September 5, 2023

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22 °C $\pm$ 2 °C
Relative Humidity : 40 %RH $\pm$ 5 %RH

CALIBRATION METHOD

The above equipment has been calibrated in accordance with QC Calibration Procedure # QC/CP/E/01 - OEM RECOMMENDATION
The deviations of the measurements obtained from UUC with respect to reference standards are determined to obtain the error.

TRACEABILITY

The measurements made by Quality Control Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

REFERENCE EQUIPMENT USED :

DESCRIPTION	MAKE	MODEL #	SERIAL #	CALIBRATION DATE	CALIBRATION DUE DATE
Multifunction Calibrator	Fluke, USA	5522A	2806902	8/20/2024	8/19/2025
Ref Multimeter	Fluke, USA	8508A	276568089	8/20/2024	8/19/2025
Decade Resistance Box	Corpico	RBB6-B	18F-1093	8/20/2024	8/19/2025



CERTIFICATE OF CALIBRATION

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CALIBRATION TEST RESULTS

Measurement Data for DC Voltage

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
V	V
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (2%)
V	V	V	± (V)
100	100.500	-0.500	2
200	200.500	-0.500	2
400	401.000	-1.000	2
600	601.520	-1.520	3

Measurement Data for AC Voltage @ 50 Hz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
V	V
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (2 %)
V	V	V	± (V)
100	100.020	-0.020	2.0
200	200.300	-0.300	2
400	400.523	-0.523	2
600	601.500	-1.500	3

Measurement Data for Resistance at different Voltage Range

Readings on UUC		Readings on Ref. Standard		Error		Uncertainty (2 %)	
MΩ	V	MΩ	V	MΩ	V	± MΩ	V
100	250	100.05100	250.50000	0.05100	0.50000	0.20	1.00
300	250	300.10000	250.20000	0.10000	0.20000	0.40	2.00
500	500	500.30000	502.50000	0.30000	2.50000	1.00	2.00
700	500	700.85000	502.50000	0.85000	2.50000	2.00	3.00
999	1000	999.05400	1002.50000	0.05400	2.50000	4.00	3.00

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

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 international practice.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) : ☒ The results are as found (no adjustment done).

☐ The results are post adjustment.

CALIBRATED BY	REVIEWED & APPROVED BY LAB INCHARGE	CLIENT
 Hussein Alaa	 LAB INCHARGE Asjad Rafiq	