

Calibration Certificate

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Date of Issue: February 12, 2025

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REQUEST NUMBER : By Mail	APPROVED BY LAB INCHARGE QC
JOB NUMBER : QC-CAL-25025	
CERTIFICATE NUMBER : QC-CAL-25025-01	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Blaster's Multimeter**
 Type of Indication : Digital
 Manufacturer : Thomas Instruments Inc.
 Model : 109
 Serial Number : **ZA7927**



Calibrated Range

Voltage (DC)	0.1 mV	to	1500 V
Voltage (AC)	0.1 mV	to	1000 V
Current (DC)	0.1 μA	to	2 A
Current (AC)	0.1 μA	to	2 A
Resistance	0.1 Ω	to	20 M Ω

Resolution

Voltage (DC)	0.1mV	0.0001V	0.001V	0.01V	0.1V	1V
Voltage (AC)	0.1mV	0.0001V	0.001V	0.01V	0.1V	1V
Current (DC)	0.1μA	0.001mA	0.01mA	0.1mA	1A	
Current (AC)	0.1μA	0.001mA	0.01mA	0.1mA	1A	
Resistance	0.1 ohm	0.001k ohm	0.01k ohm	0.1k ohm	0.001M ohm	0.01M Ohm

As Found Condition : Good
 Calibrated By : Abdulrahman Loay
 Calibration Date : February 12, 2025
Calibration Due : February 11, 2027
 Last Calibration Test : February 22, 2023

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22 °C ± 2 °C
 Relative Humidity : 40 %RH ± 5 %RH

CALIBRATION METHOD

The above equipment has been calibrated in accordance with QC Calibration Procedure # QC/CP/E/01
 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
mV	mV
0	0

Before Adjustment	After Adjustment
V	V
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
mV	mV	mV	± (mV)
199.9	199.86	0.04	1
V	V	V	± (V)
1.997	2.000	-0.0030	0.1
19.98	20.000	-0.0200	0.2
199.7	200.000	-0.3000	0.2
1000	999.300	0.7000	2.0
1500	1499.970	0.0300	2.0

Measurement Data for AC Voltage @ 60 Hz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
mV	mV
0	0

Before Adjustment	After Adjustment
V	V
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
m V	m V	m V	m V
199.9	199.82	0.08	1
V	V	V	V
1.995	1.998	-0.0030	0.1
19.97	19.950	0.0200	0.1
199.8	199.92	-0.1200	0.5
1000	999.90	0.1000	4.0

Measurement Data for Resistance

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
Ω	Ω
0	0

Before Adjustment	After Adjustment
kΩ	kΩ
0	0

Before Adjustment	After Adjustment
MΩ	MΩ
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
Ω	Ω	Ω	± (Ω)
199.9	200.05000	-0.15000	0.10
kΩ	kΩ	kΩ	± (kΩ)
1.990	2.001000	-0.011000	0.10
19.98	20.00100	-0.021000	0.10
200.0	200.0800	-0.090000	1.00
MΩ	MΩ	MΩ	± (KΩ)
1.998	2.001000	-0.003000	1.00
19.99	20.0020	-0.012000	1.00

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Measurement Data for DC Current

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
μA	μA
0	0

Before Adjustment	After Adjustment
mA	mA
0	0

Before Adjustment	After Adjustment
A	A
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
μA	μA	μA	$\pm (\mu\text{A})$
199.8	199.980	-0.180	0.1
mA	mA	mA	$\pm (\text{mA})$
1.992	1.990	0.002	0.1
19.98	19.990	-0.010	0.1
199.8	199.980	-0.150	1
A	A	A	$\pm (\text{mA})$
2.0	1.990000	0.010000	1

Measurement Data for AC Current @ 60 Hz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
μA	μA
0	0

Before Adjustment	After Adjustment
mA	mA
0	0

Before Adjustment	After Adjustment
A	A
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
μA	μA	μA	$\pm (\mu\text{A})$
199.9	199.990	-0.090	0
mA	mA	mA	$\pm (\text{mA})$
1.973	1.970	0.003	0.1
19.99	19.990	0.003	0.1
200.0	199.980	-0.002	1
A	A	A	$\pm (\text{A})$
2.0	1.990000	0.010000	1

Results :

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
 Abdulrahman Loay	 LAB INCHARGE Asjad Rafiq	ALI Talib HB48903 Date: 12-02-2025 Signature  Haliburton