Calibration Certificate

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Date of Issue: July 16, 2025

REQUEST NUMBER	: By Mail	APPROVED BY / AR INCHARGE QC
JOB NUMBER	: QC-CAL-25270	
CERTIFICATE NUMBER	: **QC-CAL-25270-10**	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Multimeter**
Type of Indication : Digital
Manufacturer : Fluke, USA
Model : 77IV
Serial Number : **26360098**
SAP Number : **300308811**

Calibrated Range:

Voltage (DC)	0.1 mV	to	1000 V		
Voltage (AC) @ 50 Hz	1 mV	to	1000 V		
Voltage (AC) @ 1 kHz	1 mV	to	1000 V		
Current (DC)	0.01 mA	to	10 A		
Current (AC) @ 50 Hz	0.01 mA	to	10 A		
Current (AC) @ 1 kHz	0.01 mA	to	10 A		
Resistance	0.1 ohm	to	60 M-ohm		

Resolution:

Voltage (DC)	0.1 mV	0.001 V	0.01V	0.1V	1V	
Voltage (AC) @ 50 Hz	0.1 mV	0.001 V	0.01V	0.1V	1V	
Voltage (AC) @ 1 kHz	0.1 mV	0.001 V	0.01V	0.1V	1V	
Current (DC)	0.01 mA	0.1mA	0.001A	0.01A		
Current (AC) @ 50 Hz	0.01 mA	0.1mA	0.001A	0.01A		
Current (AC) @ 1 kHz	0.01 mA	0.1mA	0.001A	0.01A		
Resistance	0.1 ohm	0.001 k-ohm	0.01k-ohm	0.1k-ohm	0.001M-ohm	0.01M-ohm

As Found : In Tolerance
Calibration Date : July 16, 2025
Calibration Due : July 15, 2026
Last Calibration : NA

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 Mulitmeter	Fluke, USA	8508A	276568089	8/20/2024	8/19/2025
Decade Resistance Box	Corpico	RBB6-B	18F-1093	8/20/2024	8/19/2025
Programmable Inductance substitutor	IET Labs	PLS-1492	J1-1419517	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
µV	µV
0	0

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)
1.0	1.00	0.00	0.1
9.9	10.00	-0.10	0.1
101.2	100.00	1.20	0.1
502.4	500.00	2.40	0.1
599.8	600.00	-0.20	0.1
V	V	V	± (V)
1.003	1.00	0.00	0.1
5.002	5.00	0.00	0.1
10.01	10.00	0.01	0.1
100	100.00	0.00	0.1
301	300.00	1.00	0.1
501	500.00	1.00	0.2
898	900.00	-2.00	0.2
998	1000.00	-2.00	0.2

Measurement Data for AC Voltage @ 50 Hz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
µV	µV
0	0

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)
0.9	1.000	-0.100	0.1
9.9	10.000	-0.100	0.1
100.0	100.000	0.000	0.1
500.8	499.998	0.802	0.1
600.2	600.000	0.200	0.1
V	V	V	± (V)
1.002	0.999980	0.002020	0.1
10.01	9.99998	0.01002	0.1
100.0	100.0130	-0.0130	0.1
300.0	300.013	-0.013	0.1
500	500.013	-0.013	0.1
901	900.080	0.920	0.2
1000	1000.056	-0.056	0.2

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Measurement Data for AC Voltage @ 1 kHz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
µV	µV
0	0

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)
0.9	1.001	-0.101	0.1
9.8	10.001	-0.201	0.1
100.0	100.003	-0.003	0.1
500.0	500.000	0.000	0.1
600.0	600.000	0.000	0.1
V	V	V	± (V)
1.002	1.000010	0.001990	0.1
10.01	10.00001	0.00999	0.1
100.0	99.9870	0.01300	0.1
300.0	299.987	0.0130	0.1
500	499.987	0.0130	0.2
901	899.930	1.0700	0.2
1000	1000.001	-0.0010	0.3

Measurement Data for DC Current

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
µA	µA
0	0

Before Adjustment	After Adjustment
µA	µA
0	0

Before Adjustment	After Adjustment
µA	µA
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L)
mA	mA	mA	± (mA)
0.90	1.000	-0.100	0
9.80	10.000	-0.200	0.1
100.0	99.999	0.001	0.1
500.0	499.994	0.006	0.1
599.5	600.000	-0.500	0.1
A	A	A	± (A)
1.002	1.000010	0.001990	0.01
-1.002	-1.000030	-0.00197	0.01
3.002	2.999950	0.002050	0.01
5.003	4.999950	0.003050	0.06
9.003	8.999800	0.003200	0.06

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Measurement Data for AC Current @ 50 Hz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
µA	µA
0	0

Before Adjustment	After Adjustment
µA	µA
0	0

Before Adjustment	After Adjustment
µA	µA
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L)
mA	mA	mA	± (mA)
0.9	1.000	-0.100	0
9.8	10.000	-0.200	0.1
100	100.000	0.000	0.1
500	500.030	-0.030	0.1
900	899.900	0.100	0.2
A	A	A	± (A)
1.002	1.000100	0.001900	0.01
3.002	3.000040	0.001960	0.01
5.003	5.000040	0.002960	0.06
9.003	9.001000	0.002000	0.06

Measurement Data for AC Current @ 1 kHz

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
µA	µA
0	0

Before Adjustment	After Adjustment
µA	µA
0	0

Before Adjustment	After Adjustment
µA	µA
0	0

Measurement Data for AC Current @ 1 kHz

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L)
mA	mA	mA	± (mA)
0.9	1.000	-0.100	0
9.8	10.000	-0.200	0.1
100.30	100.000	0.300	0.1
499.40	500.000	-0.600	0.1
599.94	600.000	-0.060	0.2
A	A	A	± (A)
1.002	1.000000	0.002000	0.01
3.002	3.000000	0.002000	0.01
5.003	5.000000	0.003000	0.06
9.006	9.000000	0.006000	0.06

CERTIFICATE OF CALIBRATION

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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)
1.1	1.00010	0.09990	0.08
10.1	9.99990	0.10010	0.10
100.1	99.9994	0.10060	0.08
599.5	600.0000	-0.50000	0.08
kΩ	kΩ	kΩ	± (kΩ)
1.002	1.000000	0.002000	0.01
10.002	9.99996	0.002040	0.01
100.1	100.0006	0.099400	0.06
500.1	499.9993	0.100700	0.05
599.5	600.000	-0.500000	0.08
MΩ	MΩ	MΩ	± (MΩ)
1.001	1.000001	0.000999	0.12
10.000	10.00003	-0.00003	0.01
30.005	30.0000	0.0050	0.02
59.45	60.0000	-0.5500	0.02

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	REVIWED & APPROVED BY LAB INCHARGE	CLIENT
Hussein Alaa	LAB INCHARGE Asjad Rafiq	