

Calibration Certificate

Al Takamul Yard North Rumailah, Iraq

• Phone : +964 7810009138 • www.qualitycontrol-iraq.com • E-mail: op@qualitycontrol-iraq.com

Date of Issue: July 3, 2025

Page 1 of 5

REQUEST NUMBER : By Contract	APPROVED CALIBRATION CHARGE QC
JOB NUMBER : QC-CAL-25248	
CERTIFICATE NUMBER : QC-CAL-25248-20	



CUSTOMER DETAILS

Name : **Daqing Drilling Company Iraq**
 Address : Basra, South Iraq
 Department : DQ037

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Multimeter**
 Type of Indication : Digital
 Manufacturer : FLUKE
 Model : 17B+
 Serial Number : 46421217WS
 SAP No : NA



Calibrated Range:

Voltage (DC)	0.01 mV	to	1000 V
Voltage (AC) @ 50 Hz	0.1 mV	to	1000 V
Voltage (AC) @ 1 kHz	0.1 mV	to	1000 V
Current (DC)	0.01 μA	to	10 A
Current (AC) @ 50 Hz	0.1 μA	to	10 A
Current (AC) @ 1 kHz	0.1 μA	to	10 A
Resistance	1 Ω	to	40 MΩ

Resolution:

Voltage (DC)	0.1 mV	0.001 V	0.01 V	0.1V	1V
Voltage (AC) @ 50 Hz	0.1 mV	0.001 V	0.01 V	0.1V	1V
Voltage (AC) @ 1 kHz	0.1 mV	0.001 V	0.01 V	0.1V	1V
Current (DC)	0.01 μA	0.001 mA	0.001 A		
Current (AC) @ 50 Hz	0.1 μA	0.001 mA	0.001 A		
Current (AC) @ 1 kHz	0.1 μA	0.001 mA	0.001 A		
Resistance	0.1 Ω	0.001 KΩ	0.001 MΩ		

As found : In Tolerance
 Calibrated By : Hussein Alaa
 Calibration Date : July 3, 2025
 Calibration Due : **July 2, 2026**
 Last Calibration : NA

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 31 °C ± 2 °C
 Relative Humidity : 45 %RH ± 5 %RH

CALIBRATION METHOD

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

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
Programmable Inductance substitutor	IET Labs	PLS-1492	J1-1419517	8/20/2024	8/19/2025



CERTIFICATE OF CALIBRATION

CERTIFICATE NUMBER

REQUEST NUMBER:
JOB NUMBER:

By Email
QC-CAL-25248

QC-CAL-25248-20

Page 2 of 5

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	\pm (mV)
0.9	0.89	0.01	0.1
10	9.98	0.02	0.1
100	99.99	0.01	0.1
300	300.07	-0.07	0.1
400	401.93	-1.93	0.1
V	V	V	\pm (V)
1.002	1.00	0.00	0.1
-1.002	-1.00	0.00	0.1
10.01	10.00	0.01	0.1
100	100.00	0.00	0.1
300	300.00	0.00	0.1
500	500.08	-0.08	1
900	900.21	-0.21	1
1000	1000.58	-0.58	1

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	\pm (mV)
0.9	1.000	-0.100	0.1
9.9	10.000	-0.100	0.1
100	100.060	-0.060	0.1
300	299.998	0.002	0.1
400	398.650	1.350	0.1
V	V	V	\pm (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	1
901	900.080	0.920	1
1000	1000.000	0.000	1

CERTIFICATE OF CALIBRATION

CERTIFICATE NUMBER

QC-CAL-25248-20

Page 3 of 5

REQUEST NUMBER:

By Email

JOB NUMBER:

QC-CAL-25248

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	\pm (mV)
0.9	1.001	-0.101	0.1
9.8	10.001	-0.201	0.1
100	100.001	-0.001	0.1
300	300.000	0.000	0.1
400	399.971	0.029	0.1
V	V	V	\pm (V)
1.002	1.000010	0.001990	0.1
10.01	10.00001	0.00999	0.1
100.0	99.9870	0.0130	0.1
300.0	299.973	0.027	0.1
500	499.987	0.013	1
901	899.930	1.070	1
1000	999.958	0.042	1

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	\pm (mA)
0.9	1.000	-0.100	0
9.8	10.000	-0.200	0.1
100	99.999	0.001	0.1
300	299.994	0.006	0.1
400	400.125	-0.125	0.1
A	A	A	\pm (A)
1.002	1.000010	0.001990	0.01
-1.002	-1.000030	-0.001970	0.01
3.002	2.999950	0.002050	0.01
5.003	4.999950	0.003050	0.06
10.00	10.999900	-0.999900	0.06

CERTIFICATE OF CALIBRATION

CERTIFICATE NUMBER

REQUEST NUMBER: By Email
JOB NUMBER: QC-CAL-25248-20

QC-CAL-25248-20

Page 4 of 5

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.)
μA	μA	μA	$\pm (\mu\text{A})$
99.9	99.999	-0.099	0.1
mA	mA	mA	$\pm (\text{mA})$
0.9	1.000	-0.100	0
9.8	10.000	-0.200	0.1
100	100.000	0.000	0.1
300	300.030	-0.030	0.1
400	399.900	0.100	0.2
A	A	A	$\pm (\text{A})$
1.002	1.000100	0.001900	0.01
3.002	3.000040	0.001960	0.01
5.003	5.000040	0.002960	0.06
9.9	10.235000	-0.335000	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.)
μA	μA	μA	$\pm (\mu\text{A})$
99.9	99.999	-0.099	0.1
mA	mA	mA	$\pm (\text{mA})$
0.9	1.000	-0.100	0
9.8	10.000	-0.200	0.1
100	100.020	-0.020	0.1
300	300.040	-0.040	0.1
400	401.230	-1.230	0.2
A	A	A	$\pm (\text{A})$
1.002	0.999950	0.002050	0.01
3.002	2.999780	0.002220	0.01
5.002	4.999780	0.002220	0.06
10.001	10.002568	-0.001568	0.06

CERTIFICATE OF CALIBRATION

CERTIFICATE NUMBER

QC-CAL-25248-20

Page 5 of 5

REQUEST NUMBER:

By Email

JOB NUMBER:

QC-CAL-25248

Measurement Data for Resistance

Zero or Offset Readings of UUC

Before Adjustment	After Adjustment
Ω	Ω
0	0

Before Adjustment	After Adjustment
$k\Omega$	$k\Omega$
0	0

Before Adjustment	After Adjustment
$M\Omega$	$M\Omega$
0	0

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L.)
Ω	Ω	Ω	$\pm (\Omega)$
1.1	1.00010	0.09990	0.08
10.1	9.99990	0.10010	0.10
100.1	99.9994	0.1006	0.08
400.2	400.0060	0.1940	0.08
$k\Omega$	$k\Omega$	$k\Omega$	$\pm (k\Omega)$
1.002	1.000000	0.002000	0.01
10.002	9.99996	0.00204	0.01
100.1	100.0006	0.0994	0.06
300.1	299.9995	0.1005	0.05
400	399.999	0.0010	0.08
$M\Omega$	$M\Omega$	$M\Omega$	$\pm (M\Omega)$
1.001	1.000050	0.000950	0.12
10.00	10.00003	-0.00003	0.01
30.00	29.9970	0.0040	0.02
40.00	39.9840	0.0160	0.02

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.

~ END OF DOCUMENT ~