

Calibration Certificate

Al Takamul Yard North Rumailah, Iraq

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Date of Issue: November 12, 2024

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REQUEST NUMBER : By Mail JOB NUMBER : QC-YB-240044 CERTIFICATE NUMBER : QC-YB-240044-04	APPROVED BY LAB INCHARGE QC Asjad Rafiq
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CUSTOMER DETAILS

Name : **Halliburton Worldwide IRAQ**
 Unit : **IEM**
 Address : Western Burjesia, Oil Street, Zubair, South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Multifunction Process Calibrator**
 Type of Indication : Digital
 Manufacturer : Fluke, USA
 Model : 725
 Serial Number : **1519097**
 SAP : 300094871



Calibrated Range:

Voltage (DC)	0 V	to	30 V
Current (DC) Measure	4 mA	to	20 mA
Current Source	4 mA	to	20 mA
Current (DC) Simulation	4 mA	to	20 mA

Resolution:

Voltage (DC)	0.001 V
Current (DC) Measure	0.001 mA
Current Source	0.001 mA
Current (DC) Simulation	0.001 mA

As Found : In Tolerance
 Calibrated By : Abdulrahman Loay
Calibration Date : November 12, 2024
Calibration Due : November 11, 2025
 Last Calibration : September 19, 2023

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature	:	22 °C	±	2 °C
Relative Humidity	:	15 %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.

CERTIFICATE OF CALIBRATION

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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	TRACEABILITY
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

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.)
V	V	V	$\pm (V)$
1.002	1.00000	0.00200	0.100
5.000	5.00002	-0.00002	0.100
10.010	9.99946	0.01054	0.100
20.000	20.00010	-0.00010	0.100
30.000	30.00200	-0.00200	0.100

Measurement Data for DC Current-SOURCE/SIMULATION
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	$\pm (mA)$
4.000	4.000000	0.000000	0.000
8.000	8.000000	0.000000	0.000
12.000	11.996000	0.004000	0.000
16.000	15.997000	0.003000	0.000
20.000	20.010000	-0.010000	0.100
mA	mA	mA	$\pm (A)$
4.000	4.000010	-0.000010	0.010
8.000	7.999970	0.000030	0.010
12.000	11.999874	0.000126	0.010
16.000	15.999450	0.000550	0.058
20.000	19.999800	0.000200	0.058

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Measurement/Loop Power Data for DC Current

Readings on UUC	Readings on Ref. Standard	Error	Uncertainty (95 % C.L)
mA	mA	mA	± (mA)
4.000	4.000150	-0.000150	0.000
8.000	8.000250	-0.000250	0.000
12.000	12.023500	-0.023500	0.000
16.000	16.042500	-0.042500	0.000
20.000	20.050000	-0.050000	0.200
mA	mA	mA	± (A)
4.000	3.999950	0.000050	0.010
12.000	11.995880	0.004120	0.010
16.000	15.999680	0.000320	0.058
20.000	20.002300	-0.002300	0.058

Measurement Data for Thermocouples Measurement Data for RTDs

Types	Test Results
L	OK
N	OK
R	OK
S	OK
T	OK
U	OK
XK	OK
BP	OK
B	OK
E	OK
J	OK
K	OK

Types	Test Results
PT100	OK
PT3916	OK
PT200	OK
PT500	OK
PT1000	OK
NI120	OK
PT3926	OK

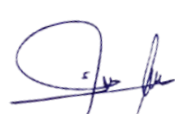
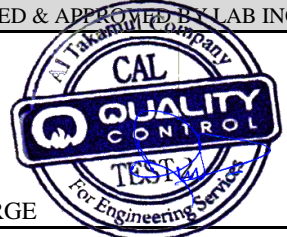
Calibration results were found to conform as per specified accuracy requirements. Above Instrument has PASSED its Calibration.

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
 Abdulrahman Loay	 LAB INCHARGE Asjad Rafiq	