Calibration Certificate

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Date of Issue: November 12, 2024

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

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 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

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	± (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	± (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	± (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

CERTIFICATE OF CALIBRATION

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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

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

Measurement Data for RTDs

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	