

## Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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

Date of Issue: 23/06/2024

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REQUEST NUMBER : By Contract	CUSTOMER DETAILS
JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-01</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : Resato  
 Model : EN 837-1  
 Serial Number : **CAL-HCT-01**  
 Type : Analog  
 Location : Pressure Test Pump 1  
 Range : 0 to 140 bar  
 Calibrated Range : 0 to 140 bar  
 Resolution : 5 psi  
 Accuracy : 1.6  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due** : **22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD** : None

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
40	40.10	-0.10	-0.1
80	80.30	-0.30	-0.2
120	120.50	-0.50	-0.4
140	140.40	-0.40	-0.3

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

- The results are as found (no adjustment done).
- The results are post adjustment.

CALIBRATED BY  Hussein Alaa	REVISED & APPROVED BY LAB INCHARGE  LAB INCHARGE Asjad Rafiq	CLIENT
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REQUEST NUMBER : By Contract	<b>CUSTOMER DETAILS</b>
JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-02</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

**Description** : Pressure Gauge  
**Manufacturer** : Resato  
**Model** : EN 837-1  
**Serial Number** : **1108359794**  
**Type** : Analog  
**Location** : Pressure Test Pump 1  
**Range** : 0 to 23000 psi  
**Calibrated Range** : 0 to 23000 psi  
**Resolution** : 500 psi  
**Accuracy** : 1.0  
**Tolerance** : ± 1.0 % of Full Scale  
**As found** : In Tolerance  
**Calibration Date** : 23/06/2024  
**Calibration Due** : **22/06/2025**  
**Last Calibration Date** : NA



**DEVIATION FROM STANDARD METHOD** : None

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
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**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
5000	5014	-14.00	-0.1
10000	10023	-23.00	-0.1
15000	15038	-38.00	-0.2
23000	23052	-52.00	-0.2

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

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 The results are post adjustment.

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REQUEST NUMBER : By Contract	CUSTOMER DETAILS
JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-04</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : Resato  
 Model : EN 837-1  
 Serial Number : **CAL-HCT-03**  
 Type : Analog  
 Location : Pressure Test Pump 2  
 Range : 0 to 140 bar  
 Calibrated Range : 0 to 140 bar  
 Resolution : 5 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

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**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
40	40.1	-0.10	-0.1
80	80.3	-0.30	-0.2
120	120.2	-0.20	-0.1
140	140.5	-0.50	-0.4

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

- The results are as found (no adjustment done).
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JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-05</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : Resato  
 Model : EN 837-1  
 Serial Number : **8974T07R**  
 Type : Analog  
 Location : Pressure Test Pump 2  
 Range : 0 to 23000 psi  
 Calibrated Range : 0 to 23000 psi  
 Resolution : 500 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
5000	5011	-11.00	0.0
10000	10019	-19.00	-0.1
15000	15044	-44.00	-0.2
23000	23061	-61.00	-0.3

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

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- The results are post adjustment.

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JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-06</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : WIKA  
 Model : EN 837-1  
 Serial Number : **1106652618**  
 Type : Analog  
 Location : NA  
 Range : 0 to 14500 psi  
 Calibrated Range : 0 to 14500 psi  
 Resolution : 200 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

**REFERENCE EQUIPMENT USED**



DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
5000	5008.0	-8.00	-0.1
7500	7516.0	-16.00	-0.1
10000	10029.0	-29.00	-0.2
14500	14543.0	-43.00	-0.3

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

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JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-07</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : WIKA  
 Model : EN 837-1  
 Serial Number : **89709T8U**  
 Type : Analog  
 Location : NA  
 Range : 0 to 14500 psi  
 Calibrated Range : 0 to 14500 psi  
 Resolution : 200 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
5000	5025.0	-25.00	-0.2
7500	7536.0	-36.00	-0.2
10000	10042.0	-42.00	-0.3
14500	14558.0	-58.00	-0.4

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

- The results are as found (no adjustment done).
- The results are post adjustment.

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JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-08</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : WIKA  
 Model : EN 837-1  
 Serial Number : **CAL-HCT-04**  
 Type : Analog  
 Location : NA  
 Range : 0 to 14500 psi  
 Calibrated Range : 0 to 14500 psi  
 Resolution : 200 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
5000	4981	19.00	0.1
7500	7492	8.00	0.1
10000	10009	-9.00	-0.1
14500	14521	-21.00	-0.1

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

- The results are as found (no adjustment done).
- The results are post adjustment.

CALIBRATED BY  Hussein Alaa	REVIEWED & APPROVED BY LAB INCHARGE  LAB INCHARGE Asjad Rafiq	CLIENT
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JOB NUMBER : QC/JN/24/00249		Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-09</b>		Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : WIKA  
 Model : EN 837-1  
 Serial Number : **BQS-2016-0116-IQ**  
 Type : Analog  
 Location : NA  
 Range : 0 to 680 psi  
 Calibrated Range : 0 to 680 psi  
 Resolution : 200 psi  
 Accuracy : 1.6  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**ENVIRONMENTAL CONDITIONS DURING TEST**

Ambient Temperature : 35.0 ± 2°C Humidity : 30.0 ± 5 % RH Atm. Pressure 1011.0 ± 10 hPa

**CALIBRATION METHOD**

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

**REFERENCE EQUIPMENT USED**

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
150	150.6	-0.60	-0.1
300	301.0	-1.00	-0.1
450	452.0	-2.00	-0.3
680	683.0	-3.00	-0.4

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

- The results are as found (no adjustment done).
- The results are post adjustment.

CALIBRATED BY  Hussein Alaa	REVIEWED & APPROVED BY LAB INCHARGE  LAB INCHARGE Asjad Rafiq	CLIENT
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JOB NUMBER : QC/JN/24/00249		Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-10</b>		Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : WIKA  
 Model : EN 837-1  
 Serial Number : **89709T8V**  
 Type : Analog  
 Location : NA  
 Range : 0 to 14500 psi  
 Calibrated Range : 0 to 14500 psi  
 Resolution : 200 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

1. No adjustments were made prior to calibration.
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3. Values were rounded in computation.

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DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
0	0	0	0
5000	5006	-6.00	0.0
7500	7517	-17.00	-0.1
10000	10029	-29.00	-0.2
14500	14544	-44.00	-0.3

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

- The results are as found (no adjustment done).
- The results are post adjustment.

CALIBRATED BY   Hussein Alaa	REVIEWED & APPROVED BY LAB INCHARGE   LAB INCHARGE Asjad Rafiq	CLIENT
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JOB NUMBER : QC/JN/24/00249	Name <b>Halliburton Worldwide IRAQ (HCT)</b>
CERTIFICATE NUMBER : <b>QC240623-11</b>	Address Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
 Manufacturer : WIKA  
 Model : EN 837-1  
 Serial Number : **CAL-HCT-05**  
 Type : Analog  
 Location : NA  
 Range : 0 to 14500 psi  
 Calibrated Range : 0 to 14500 psi  
 Resolution : 200 psi  
 Accuracy : 1.0  
 Tolerance : ± 1.0 % of Full Scale  
 As found : In Tolerance  
 Calibration Date : 23/06/2024  
**Calibration Due : 22/06/2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**

**REMARK (S) :**

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2. No accessories were fitted.
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DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

**CALIBRATION TEST RESULTS**

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Full Scale Error %
<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
5000	4971	29.00	0.2
7500	7485	15.00	0.1
10000	9993	7.00	0.0
14500	14511	-11.00	-0.1

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

- The results are as found (no adjustment done).  
 The results are post adjustment.

CALIBRATED BY  Hussein Alaa	REVIEWED & APPROVED BY LAB INCHARGE  LAB INCHARGE Asjad Rafiq	CLIENT
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