

Certificate Of Calibration

Behine Sanjesh Azma Eng.



نیک آزما
Neek Azma



VALIDATION



3rd Floor, No 259, Behsa Building, Corner of Modares, Highway, Opposite Sarafraz St, Dr. Beheshti Ave
Tehran-Iran www.behsalab.com Tel: +9821-88531320 - 88170671 - 88170634 Fax: +9821 88533329

Page 1 of 4

Certificate NO.

B9780/02/1

Customer's Requested

Re-Cal.Date

1405/06/25

Date of Issue

1402/06/26

Calibration Date

1402/06/25

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 098745827

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital Multimeter

Manufacturer : Victor

Model : VC97

Resolution : -----

Serial No : 098745827

Range : Multi Range

Calibration Report

1) Reference Standards & Traceability :

- 1- Fluke 9100; Multi-Function Calibrator S/N.:991358791, Cert. NO.:MVZF2E
- 2- Digital Multimeter S/N.: 31906428, Cert. NO. B0101/1028

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-316

3) Environmental Condition : Temperature: (23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

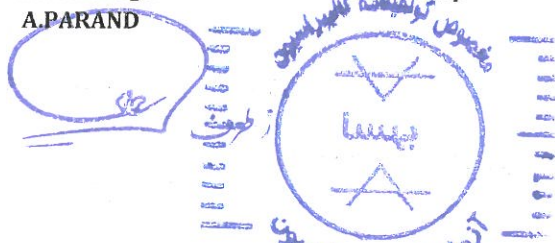
5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

Calibrated By
118

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ID No	098745827
Cert No	B9780/02/1
Cal Date	1402/06/25
Due Date	1405/06/25
Invalid Without Certificate Revise Date	

- 1- The user must act in order to recalibrate during a specified period of time .
- 2- This certificate shall not be published or reproduced other than in full .
- 3- This certificate is not valid without special stamp & Hologram of issuant laboratory .

LQS-F708-01
Revise Date :00/09

Certificate Of Calibration

PCL XL Error

Behine Sanjesh Azma Eng.

Subsystem: KERNEL

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VALIDATION



Page 2 of 4

Certificate NO. B9780/02/1

5-1. DC VOLTAGE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	400.0 mV	0.1mV	40.000	40.0	0.000	± 0.06 mV	±(0.5%rdg+4dgt)
2			360.00	360.7	0.70	± 0.11 mV	
3	4.000 V	0.001V	0.40000	0.400	0.00000	± 0.0006 V	
4			3.6000	3.610	0.0100	± 0.0011 V	
5	40.00 V	0.01V	4.0000	4.00	0.0000	± 0.006 V	
6			36.000	36.06	0.060	± 0.011 V	
7	400.0 V	0.1V	40.000	39.9	-0.100	± 0.06 V	±(0.5%rdg+4dgt)
8			200.000	200.2	0.200	± 0.07 V	
9			360.00	360.1	0.10	± 0.08 V	
10	1000 V	1V	400.00	399	-1.00	± 0.6 V	±(1.0%rdg+6dgt)
11			700.00	699	-1.00		
12			900.00	899	-1.00		

5-2. AC VOLTAGE INPUT (50HZ)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	400.0 mV	0.1mV	40.000	40.0	0.000	± 0.08 mV	±(1.6%rdg+8dgt)
2			360.00	360.7	0.70	± 0.47 mV	
3	4.000 V	0.001V	0.40000	0.401	0.00100	± 0.0008 V	±(0.8%rdg+10dgt)
4			3.6000	3.611	0.0110	± 0.0047 V	
5	40.00 V	0.01V	4.0000	4.00	0.0000	± 0.008 V	
6			36.000	36.07	0.070	± 0.030 V	
7	400.0 V	0.1V	40.000	40.0	0.000	± 0.07 V	
8			200.000	200.1	0.100	± 0.18 V	
9			360.00	360.2	0.20	± 0.60 V	
10	750 V	1V	400.00	400	0.00	± 0.9 V	±(0.8%rdg+10dgt)
11			500.00	500	0.00	± 1.1 V	
12			700.00	700	0.00	± 1.4 V	

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01

Revise Date : 00/09

Certificate Of Calibration

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Page 3 of 4

Certificate NO. B9780/02/1

5-3. DC CURRENT INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	400.0 μ A	0.1 μ A	40.000	40.0	0.000	$\pm 0.07 \mu$ A	$\pm(1.0\%rdg+10dgt)$
2			360.00	360.3	0.30	$\pm 0.19 \mu$ A	
3	4000 μ A	1 μ A	400.00	400	0.00	$\pm 0.7 \mu$ A	
4			3600.0	3602	2.0	$\pm 2.0 \mu$ A	
5	40.00 mA	0.01mA	4.0000	4.01	0.0100	± 0.006 mA	$\pm(1.2\%rdg+8dgt)$
6			36.000	35.90	-0.100	± 0.022 mA	
7	400.0 mA	0.1mA	40.000	39.8	-0.200	± 0.07 mA	
8			360.00	359.3	-0.70	± 0.45 mA	
9	4.000 A	0.001A	1.00000	1.001	0.00100	± 0.0012 A	$\pm(1.2\%rdg+10dgt)$
10			3.00000	3.005	0.00500	± 0.0027 A	
11	10.00 A	0.01A	5.0000	5.00	0.0000	± 0.008 A	
12			7.0000	7.01	0.0100	± 0.008 A	
13			9.0000	9.03	0.0300	± 0.010 A	

5-4. AC CURRENT INPUT 50HZ

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	400.0 μ A	0.1 μ A	40.000	39.9	-0.100	$\pm 0.44 \mu$ A	$\pm(1.5\%rdg+10dgt)$
2			360.00	360.1	0.10	$\pm 0.73 \mu$ A	
3	4000 μ A	1 μ A	400.00	400	0.00	$\pm 1.0 \mu$ A	
4			3600.0	3603	3.0	$\pm 8.0 \mu$ A	
5	40.00 mA	0.01mA	4.0000	3.99	-0.0100	± 0.011 mA	
6			36.000	35.91	-0.090	± 0.081 mA	
7	400.0 mA	0.1mA	40.000	39.9	-0.100	± 0.11 mA	$\pm(2.0\%rdg+15dgt)$
8			360.00	359.5	-0.50	± 1.14 mA	
9	4.000 A	0.001A	1.00000	0.999	-0.00100	± 0.0022 A	
10			3.00000	3.000	0.00000	± 0.0049 A	
11	10.00 A	0.01A	5.0000	5.000	0.0000	± 0.019 A	
12			7.0000	7.02	0.0200	± 0.019 A	
13			9.0000	9.04	0.0400	± 0.029 A	

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Page 4 of 4

Certificate NO. B9780/02/1

5-5. RESISTANCE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	400.0 Ω	0.1 Ω	360.000	362.4	2.400	$\pm 0.14 \Omega$	$\pm(0.8\%rdg+5dgt)$
2	4.000 K Ω	0.001K Ω	3.60000	3.615	0.01500	$\pm 0.0010 K\Omega$	$\pm(0.8\%rdg+4dgt)$
3	40.00 K Ω	0.01K Ω	36.0000	36.10	0.1000	$\pm 0.013 K\Omega$	
4	400.0 K Ω	0.1K Ω	100.000	100.1	0.100	$\pm 0.07 K\Omega$	
5			360.000	360.8	0.800	$\pm 0.13 K\Omega$	
6	4.000 M Ω	0.001M Ω	1.00000	1.003	0.00300	$\pm 0.0010 M\Omega$	$\pm(1.2\%rdg+10dgt)$
7			3.60000	3.607	0.00700	$\pm 0.0030 M\Omega$	
8	40.00 M Ω	0.01M Ω	10.0000	10.03	0.0300	$\pm 0.024 M\Omega$	
9			36.0000	36.20	0.2000	$\pm 0.075 M\Omega$	

Buzzer Test	< 51.000 Ω	Pass
Diode Output Test	3.235 V/DC	Pass

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

Certificate Of Calibration

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AUDATION



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Page 1 of 4

Certificate NO.

B9780/02/2

Customer's Requested

Re-Cal.Date

1405/06/25

Date of Issue

1402/06/26

Calibration Date

1402/06/25

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 1712309325

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جواد-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital Multimeter

Manufacturer : AKB

Model : DT9205A

Resolution : ----

Serial No : 1712309325

Range : Multi Range

Calibration Report

1) Reference Standards & Traceability :

- 1- Fluke 9100; Multi-Function Calibrator S/N.:991358791, Cert. NO.:MVZF2E
- 2- Digital Multimeter S/N.: 31906428, Cert. NO. B0101/1028

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-316

3) Environmental Condition : Temperature:(23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication: EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

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Revise Date :00/09

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Page 2 of 4

Certificate NO. B9780/02/2

5-1. DC VOLTAGE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	200.0 mV	0.1 mV	20.000	20.2	0.200	± 0.06 mV	± (0.5%rdg+1dgt)
2			180.000	181.4	1.400	± 0.07 mV	
3	2.000 V	0.001 V	0.20000	0.201	0.00100	± 0.0006 V	
4			1.80000	1.802	0.00200	± 0.0007 V	
5	20.00 V	0.01 V	2.00000	2.01	0.01000	± 0.006 V	
6			18.0000	18.05	0.0500	± 0.007 V	
7	200.0 V	0.1 V	20.0000	20.4	0.4000	± 0.06 V	
8			180.000	180.4	0.400	± 0.07 V	
9	1000 V	1 V	200.000	201	1.000	± 0.6 V	
10			500.00	503	3.00		
11			900.00	905	5.00		

5-2. AC VOLTAGE INPUT (50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	200.0 mV	0.1 mV	20.000	20.1	0.100	± 0.06 mV	± (0.8%rdg+3dgt)
2			180.000	182.0	2.000	± 0.07 mV	
3	2.000 V	0.001 V	0.20000	0.199	-0.00100	± 0.0006 V	
4			1.80000	1.793	-0.00700	± 0.0015 V	
5	20.00 V	0.01 V	2.00000	1.99	-0.01000	± 0.006 V	
6			18.0000	18.04	0.0400	± 0.015 V	
7	200.0 V	0.1 V	20.0000	19.9	-0.1000	± 0.06 V	
8			180.000	180.4	0.400	± 0.17 V	
9	750 V	1 V	200.000	199	-1.000	± 0.6 V	
10			500.00	501	1.00	± 1.1 V	
11			700.00	702	2.00	± 1.4 V	

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Revise Date : 00/09

Certificate Of Calibration

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Page 3 of 4

Certificate NO. B9780/02/2

5-3. DC CURRENT INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	2.000 mA	0.001 mA	0.20000	0.200	0.00000	± 0.0006 mA	± (0.8%rdg+1dgt)
2			1.80000	1.800	0.00000	± 0.0008 mA	
3	20.00 mA	0.01 mA	2.00000	2.01	0.01000	± 0.006 mA	
4			18.0000	18.06	0.0600	± 0.008 mA	
5	200.0 mA	0.1 mA	20.0000	20.0	0.0000	± 0.06 mA	
6			180.000	180.7	0.700	± 0.08 mA	
7	20.00 A	0.01 A	1.00000	1.00	0.00000	± 0.006 A	
8			5.0000	5.00	0.0000	± 0.008 A	
9			7.0000	7.00	0.0000	± 0.009 A	
10			10.0000	10.01	0.0100	± 0.019 A	
11			15.0000	15.01	0.0100	± 0.21 A	

5-4. AC CURRENT INPUT(50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	2.000 mA	0.001 mA	0.20000	0.205	0.00500	± 0.0009 mA	± (1%rdg+3dgt)
2			1.80000	1.813	0.01300	± 0.0022 mA	
3	20.00 mA	0.01 mA	2.00000	2.00	0.00000	± 0.007 mA	
4			18.0000	18.15	0.1500	± 0.023 mA	
5	200.0 mA	0.1 mA	20.0000	19.9	-0.10000	± 0.07 mA	
6			180.000	181.5	1.500	± 0.25 mA	
7	20.00 A	0.01 A	1.00000	0.98	-0.02000	± 0.007 A	
8			5.0000	5.00	0.0000	± 0.019 A	
9			7.0000	7.02	0.0200	± 0.024 A	
10			10.0000	10.05	0.0500	± 0.044 A	
11			15.0000	15.08	0.0800	± 0.051 A	

Abbreviations.

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Revise Date : 00/09

Calibration Result



Certificate Of Calibration

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Page 4 of 4

Certificate NO. B9780/02/2

5-5. RESISTANCE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	200.0 Ω	0.1 Ω	180.000	178.9	-1.100	$\pm 0.06 \Omega$	$\pm (2.5\%rdg+3dgt)$
2	2.000 K Ω	0.001 K Ω	1.80000	1.800	0.00000	$\pm 0.0006 K\Omega$	
3	20.00 K Ω	0.01 K Ω	18.0000	18.01	0.0100	$\pm 0.009 K\Omega$	
4	200.0 K Ω	0.1 K Ω	180.000	180.5	0.500	$\pm 0.07 K\Omega$	
5	2.000 M Ω	0.001 M Ω	1.000	1.0	0.003	$\pm 0.09 K\Omega$	
6			1.80000	1.805	0.00500	$\pm 0.0010 K\Omega$	
7	20.00 M Ω	0.01 M Ω	10.00000	9.990	-0.01000	$\pm 0.0015 K\Omega$	
8			18.0000	17.92	-0.0800	$\pm 0.024 M\Omega$	
9	200.0 M Ω	0.1 M Ω	50.0000	50.00	0.0000	$\pm 0.040 M\Omega$	
10			100.000	99.9	-0.100	$\pm 0.31 M\Omega$	
11			180.000	179.9	-0.100	$\pm 0.46 M\Omega$	

Buzzer Test	< 37.000 Ω	Pass
Diode Output Test	2.941 V/DC	Pass

ERRORS RESULTS:

The Permissible error Value is Determined by Comparing with Accuracy.

End of calibration cert.

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error



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Page 1 of 4

Certificate NO. B9780/02/3

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Date of Issue

1402/06/26

Calibration Date

1402/06/25

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : C213698945

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital AC/DC Clamp meter

Manufacturer : UNI-T

Model : UT203+

Resolution : ----

Serial No : C213698945

Range : Multi Range

Calibration Report

1) Reference Standards & Traceability :

- 1- Fluke 9100; Multi-Function Calibrator S/N.:991358791, Cert. NO.:MVZF2E
- 2- Fluke, current coil

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-323

3) Environmental Condition : Temperature: (23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

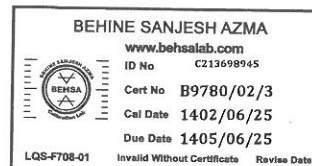
5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

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Page 2 of 4

Certificate NO. B9780/02/3

5-1. DC VOLTAGE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	400.0 mV	0.1 mV	40.000	39.9	-0.100	±0.06 mV	±(0.8%rdg+3dgt)
2			360.00	359.6	-0.40	±0.11 mV	
3	4.000 V	0.001V	0.40000	0.400	0.00000	± 0.0006 V	±(0.8%rdg+1dgt)
4			3.6000	3.606	0.0060	± 0.0011 V	
5	40.00 V	0.01V	4.0000	4.00	0.0000	± 0.006 V	
6			36.000	36.08	0.080	± 0.011 V	
7	400.0 V	0.1V	40.000	40.0	0.000	± 0.06 V	
8			200.000	200.2	0.200	± 0.07 V	
9			360.00	360.5	0.50	± 0.09 V	
10	600 V	1V	400.00	400	0.00	± 0.6 V	±(1%rdg+3dgt)
11			540.00	541	1.00		

5-2. AC VOLTAGE INPUT (50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	4.200 V	0.001V	0.40000	0.400	0.00000	± 0.0008 V	±0.8%rdg
2			3.6000	3.599	-0.0010	± 0.0047 V	
3	42.00 V	0.01V	4.0000	3.99	-0.0100	± 0.008 V	
4			36.000	35.99	-0.010	± 0.030 V	
5	420.0 V	0.1V	40.000	39.9	-0.100	± 0.07 V	
6			200.000	199.8	-0.200	± 0.18 V	
7			360.00	359.7	-0.30	± 0.65 V	
8	600 V	1V	400.00	400	0.00	± 1.0 V	
9			540.00	540	0.00		

Abbreviations.

UUC.: Unit Under Calibration. Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

Calibration Result



Certificate Of Calibration

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Page 3 of 4

Certificate NO. B9780/02/3

5-3. DC CURRENT INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	40.00A	0.01A	10.0000	9.95	-0.0500	± 0.011 A	±(2.5%rdg+5dgt)
2			30.0000	30.06	0.0600	± 0.580 A	
3	400.0 A	0.1A	50.000	50.3	0.300	± 0.70 A	
4			100.000	100.8	0.800	± 0.99 A	
5			200.000	201.8	1.800	±2.62 A	
6			300.000	302.7	2.700	±3.20 A	
7			390.00	393.5	3.50	± 3.73 A	

5-4. AC CURRENT INPUT(50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	40.00A	0.01A	10.0000	9.98	-0.0200	± 0.032 A	±(2.5%rdg+5dgt)
2			30.0000	30.00	0.0000	± 0.606 A	
3	400.0 A	0.1A	50.000	50.1	0.100	± 1.10 A	
4			100.000	100.3	0.300	± 1.58 A	
5			200.000	201.5	1.500	±3.68 A	
6			300.000	302.2	2.200	±4.65A	
7			390.00	393.0	3.00	± 5.52 A	

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

Certificate Of Calibration

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Page 4 of 4

Certificate NO. B9780/02/3

5-5. RESISTANCE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	420.0 Ω	0.1 Ω	360.000	360.5	0.500	$\pm 0.14 \Omega$	$\pm(0.8\%rdg+2dgt)$
2	4.200 K Ω	0.001K Ω	3.60000	3.601	0.00100	$\pm 0.0010 K\Omega$	
3	42.00 K Ω	0.01K Ω	36.0000	35.97	-0.0300	$\pm 0.013 K\Omega$	
4	420.0 K Ω	0.1K Ω	100.000	100.0	0.000	$\pm 0.07 K\Omega$	
5			360.000	360.0	0.000	$\pm 0.13 K\Omega$	
6	4.200 M Ω	0.001M Ω	1.00000	1.000	0.00000	$\pm 0.0010 M\Omega$	
7			3.60000	3.601	0.00100	$\pm 0.0030 M\Omega$	
8	42.00 M Ω	0.01M Ω	10.0000	10.02	0.0200	$\pm 0.024 M\Omega$	
9			36.0000	35.95	-0.0500	$\pm 0.075 M\Omega$	

Buzzer test	<33.000 Ω	Pass
Diode output test	3.963V/DC	Pass

ERRORS RESULTS :

The Permissible error Value is Determined by Comparing with Accuracy.

End of calibration cert.

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

Certificate Of Calibration

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Page 1 of 3

Certificate NO.

B9780/02/9

Customer's Requested

Re-Cal.Date

1405/06/26

Date of Issue

1402/06/27

Calibration Date

1402/06/26

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : C92036218

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital Clamp Meter

Manufacturer : UNI-T

Model : UT201

Resolution : ----

Serial No : C9236218

Range : Multi Range

Calibration Report

1) Reference Standards & Traceability :

- 1- Fluke 9100; Multi-Function Calibrator S/N.:991358791, Cert. NO.:MVZF2E
- 2- Fluke, current coil

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-323

3) Environmental Condition : Temperature: (23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

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Cert No	B9780/02/9
Cal Date	1402/06/26
Due Date	1405/06/26
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Page 2 of 3

Certificate NO. B9780/02/9

5-1. DC VOLTAGE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	200.0 mV	0.1 mV	20.000	19.9	-0.100	± 0.06 mV	±(0.8%rdg+3dgt)
2			180.000	179.3	-0.700	± 0.07 mV	
3	2.000 V	0.001 V	0.20000	0.198	-0.00200	± 0.0006 V	±(0.8%rdg+1dgt)
4			1.80000	1.790	-0.01000	± 0.0007 V	
5	20.00 V	0.01 V	2.00000	1.99	-0.01000	± 0.006 V	
6			18.0000	17.98	-0.0200	± 0.007 V	
7	200.0 V	0.1 V	20.0000	19.9	-0.1000	± 0.06 V	
8			180.000	180.2	0.200	± 0.07 V	
9	600 V	1 V	200.000	200	0.000	± 0.6 V	±(1.0%rdg+3dgt)
10			400.00	402	2.00		
11			500.00	564	64.00		

5-2. AC VOLTAGE INPUT (50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	2.000 V	0.001 V	0.20000	0.196	-0.00400	± 0.0022 V	±(1.2%rdg+5dgt)
2			1.80000	1.799	-0.00100	± 0.0015 V	
3	20.00 V	0.01 V	2.00000	1.95	-0.05000	± 0.006 V	
4			18.0000	18.06	0.0600	± 0.019 V	
5	200.0 V	0.1 V	20.0000	19.5	-0.5000	± 0.06 V	
6			180.000	180.8	0.800	± 0.17 V	
7	600 V	1 V	200.000	196	-4.000	± 0.6 V	±(1.5%rdg+5dgt)
8			400.000	399	-1.000	± 1.1 V	
9			540.00	541	1.00	± 1.2 V	

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

Certificate Of Calibration

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Page 3 of 3

Certificate NO. B9780/02/9

5-3. AC CURRENT INPUT(50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	2.000 A	0.001 A	0.50000	0.480	-0.02000	± 0.0015 A	±(4.0%rdg+40dgt)
2			1.00000	0.980	-0.02000	± 0.0022 A	
3			1.80000	1.789	-0.01100	± 0.0033 A	
4	20.00 A	0.01 A	2.00000	1.99	-0.01000	± 0.007 A	±(3.0%rdg+12dgt)
5			5.00000	4.90	-0.10000	± 0.409 A	
6			10.00000	9.95	-0.05000	± 0.448 A	
7			18.0000	18.07	0.0700	± 0.54 A	
8	200.0 A	0.1 A	20.0000	19.20	-0.8000	± 0.53 A	±(1.5%rdg+5dgt)
9			50.000	49.2	-0.800	± 1.09 A	
10			100.000	99.6	-0.400	± 1.59 A	
11			180.000	181.2	1.200	± 2.38 A	
12	400 A	1 A	200.000	196	-4.000	± 3.8 A	
13			300.000	296	-4.000	± 4.7 A	
14			400.00	397	-3.00	± 5.7 A	

5-4. RESISTANCE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	200.0 Ω	0.1 Ω	180.000	180.1	0.100	± 0.06 Ω	±(1.2%rdg+2dgt)
2	2.000 KΩ	0.001 KΩ	1.80000	1.797	-0.00300	± 0.0006 KΩ	±(1.0%rdg+2dgt)
3	20.00 KΩ	0.01 KΩ	18.0000	18.03	0.0300	± 0.009 KΩ	
4	200.0 KΩ	0.1 KΩ	100.000	99.9	-0.100	± 0.07 KΩ	
5			180.000	179.7	-0.300	± 0.09 KΩ	±(1.2%rdg+2dgt)
6	2.000 MΩ	0.001 MΩ	1.00000	1.001	0.00100	± 0.0010 KΩ	
7			1.80000	1.802	0.00200	± 0.0015 KΩ	
8	20.00 MΩ	0.01 MΩ	10.0000	10.00	0.0000	± 0.024 MΩ	±(1.5%rdg+2dgt)
9			18.0000	18.01	0.0100	± 0.040 MΩ	

BUZZER CHECK	<60.000Ω	Pass
Diode Output Test	1.581V/DC	Pass

ERRORS RESULTS :

The Permissible error Value is Determined by Comparing with Accuracy.

End of calibration cert.

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

Calibration Result



Certificate Of Calibration

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Page 1 of 5

Certificate NO.

B9780/02/8

Customer's Requested

Re-Cal.Date

1405/06/26

Date of Issue

1402/06/27

Calibration Date

1402/06/26

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 21305734

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital DC Power Supply

Manufacturer : Megatek

Model : MP-3003D

Resolution : ----

Serial No : 21305734

Range : 30 V/DC, 3 A/DC

Calibration Report

1) Reference Standards & Traceability :

- 1- Keithly 2002-8½ multimeter S/N.:0697499, Cert NO.:MVZFBF
- 2- Shunt 20A S/N.:8996065, Cert NO. B0101/350

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-317

3) Environmental Condition : Temperature: (23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

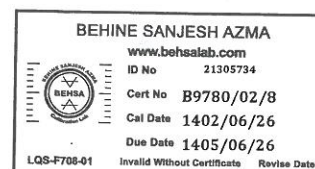
5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

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Page 2 of 5

Certificate NO. B9780/02/8

5-1. DC Voltage Output Load Regulation(CH 1) Slave

RANGE	RESOLUTION	REF.MEASURED VALUE		UUC.VOLTAGE	LOAD REGULATION	EXP.UN
		NO LOAD	WITH LOAD			
10% V	0.1	3.033	2.996	3.0 V	1.22	± 0.06V
90% V		27.043	26.787	27.0 V	0.95	

5-2. DC Voltage Output Line Regulation(CH 1)

RANGE	RESOLUTION	REF.MEASURED VALUE		UUC.VOLTAGE	LOAD REGULATION	EXP.UN
		(200V)	(240V)			
10% V	0.1	3.026	3.035	3.0 V	0.30	± 0.06V
90% V		27.040	27.039	27.0 V	0.04	

5-3. DC Current output(SLAVE)

RANGE	RESOLUTION	REF.READING	UUC.CURRENT	EXP.UN
10% V	0.01	0.3016 A	0.30 A	± 0.006 A
90% V		2.6975 A	2.70 A	± 0.020 A

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

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Certificate NO. B9780/02/8

5-4. DC Voltage Output Load Regulation (CH 2)

Due to internal failure, the DC Voltage Output Load Regulation (CH 2) is Rejected

Rejected

5-5. DC Voltage Output Line Regulation (CH 2)

Due to internal failure, the DC Voltage Output Line Regulation (CH 2) is Rejected

Rejected

5-6. DC Current output

Due to internal failure, the DC Current output is Rejected

Rejected

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

Certificate Of Calibration

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Page 4 of 5

Certificate NO. B9780/02/8

5-7. DC VOLTAGE OUTPUT(CH1) Slave

NO	RANGE	RESOLUTION	REF. READING	UUC SETTING	ERROR	EXP.UN
1	V	0.1	5.000	5.0	0.000	$\pm 0.06V$
2			10.049	10.0	-0.049	
3			14.999	15.0	0.001	
4			19.994	20.0	0.006	
5			25.006	25.0	-0.006	
6			30.009	30.0	-0.009	

5-8. DC CURRENT OUTPUT(CH 1)

NO	RANGE	RESOLUTION	REF. READING	UUC SETTING	ERROR	EXP.UN
1	A	0.01	0.4976	0.50	0.0024	$\pm 0.006A$
2			0.9955	1.00	0.0045	
3			1.4985	1.50	0.0015	
4			1.9913	2.00	0.0087	$\pm 0.007A$
5			2.894	3.00	0.106	$\pm 0.020A$

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01

Revise Date : 00/09

Certificate Of Calibration

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Page 5 of 5

Certificate NO. B9780/02/8

5-9. DC VOLTAGE OUTPUT(CH 2)Master

NO	RANGE	RESOLUTION	REF. READING	UUC SETTING	ERROR	EXP.UN
1	V	0.1	4.987	5.0	0.013	± 0.06V
2			10.000	10.0	0.000	
3			15.027	15.0	-0.027	
4			20.083	20.0	-0.083	
5			25.055	25.0	-0.055	
6			30.057	30.0	-0.057	

5-10. AC RIPPLE VOLTAGE 1.56 mV/RMS

5-11. FIXED OUTPUT VOLTAGE

RANGE	REF. READING	UUC SETTING	ERROR	EXP.UN
V	5.076	5	-0.076	± 0.6V

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01

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Certificate Of Calibration

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Page 1 of 4

Certificate NO.

B9780/02/7

Customer's Requested

Re-Cal.Date

1405/06/26

Date of Issue

1402/06/27

Calibration Date

1402/06/26

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : CN2150042066029

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : 2Channel Digital Storage Oscilloscope

Manufacturer : Hantek

Model : DS05072P

Resolution : ----

Serial No : CN22150042066029

Range : 2Channel

Calibration Report

1) Reference Standards & Traceability :

- 1- Function Generator S/N.:NDG00001130047, Cert. NO.:0001421-02
- 2- IFR2025 Noise Signal Generator Cert NO.: MZZFCG

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-332

3) Environmental Condition : Temperature: (23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
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Page 2 of 4

Certificate NO. B9780/02/7

PARAMETER	REF. SETTING	UUC V/Div. SETTING	UUC DISPLAY	ERROR	MPE	EXP.UN
CH1 Amplifire gain (1KHZ)	6.00 mV/p.p	3.00 mV/Div	6 Div	0%	±3%	± 1.0% of observation
	12.0 mV/p.p	2.00 mV/Div	6 Div	0%		
	30.0	5.00	6 Div	0%		
	60.0	10.0	6 Div	0%		
	120	20.0	6 Div	0%		
	300	50.0	6 Div	0%		
	600	100.0	6 Div	0%		
	1.200 V/p.p	200	6 Div	0%		
	3.000	500	6 Div	0%		
	6.000	1.00 V/Div	6 Div	0%		
	12.000	2.00	6 Div	0%		
	30.00	5.00	6 Div	0%		
	60.00	10.00	6Div	0%		
PARAMETER	REF. SETTING	UUC V/Div. SETTING	UUC DISPLAY	ERROR		EXP.UN
CH2 Amplifire gain (1KHZ)	6.0mV/p.p	1.00 mV/Div	6 Div	0%	±3%	± 1.0% of observation
	12.0 mV/p.p	2.00 mV/Div	6 Div	0%		
	30.0	5.00	6 Div	0%		
	60.0	10.0	6 Div	0%		
	120.0	20.0	6 Div	0%		
	300.0	50.0	6 Div	0%		
	600.0	100	6 Div	0%		
	1.200 V/p.p	200	6 Div	0%		
	3.000	500	6 Div	0%		
	6.000	1.00 V/Div	6 Div	0%		
	12.000	2.00	6 Div	0%		
	30.000	5.00	6 Div	0%		
	60.000	10.00	6 Div	0%		

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01

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Page 3 of 4

Certificate NO. B9780/02/7

Pulse Response

PARAMETER		RESULT
CH1 (Square wave).	Rise Time at 10MHZ	8.400 n.s
CH2 (Square wave) .	Rise Time at 10MHZ	8.400 n.s

PARAMETER	REF. MARKER SETTING	UUC TIME/Div. SETTING	UUC DISPLAY	MPE	EXP.UN
Time Marker (2.00 ns-40.0 sec) calibration Range (40.0 ns-8.000 sec)	8.000 sec	8.00 sec	0%	± 3%	± 1.0% of observation
	4.000	4.00	0%		
	2.000	2.00	0%		
	400.0 ms	400 ms	0%		
	200.0	200	0%		
	80.00	80.0	0%		
	40.00	40.0	0%		
	20.00	20.0	0%		
	8.000	8.00	0%		
	4.000	4.00	0%		
	2.000	2.00	0%		
	800.0 μs	800 μs	0%		
	400.0	400	0%		
	200.0	200	0%		
	80.00	80.0	0%		
	40.00	40.0	0%		
	20.00	20.0	0%		
	8.000	8.00	0%		
	4.000	4.00	0%		
	2.000	2.00	0%		
	800.0 ns	800 ns	0%		
	400.0	400	0%		
	200.0	200	0%		
	80 ns	80.0	0%		
	40	40.0	0%		

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Certificate NO. B9780/02/7

PARAMETER	STATUS	REMARKS
<u>Sweep check</u>	Pass	OK
Run/stop		
<u>Trigger section</u>	Pass	OK
Trigger level	Pass	OK
CH1,CH2,Lince source	Pass	OK
Auto, Normal, Signal	Pass	OK
Edge, Video, Pulse	Pass	OK
<u>UTILITY</u>	Pass	OK
System status, self Cal		
<u>Cursor</u>	Pass	OK
Voltage/time		
Measure frequency period	Pass	OK
Rise time, Fall time	Pass	OK
Positive width, negative width	Pass	OK
Save/ RECAL	Pass	OK
<u>Acquire</u>	Pass	OK
Sample, peak detect, average		
<u>Display</u>		
Vectors, dots, YT	Pass	OK
XY, Contrast increase		
contrast decrease		
<u>Horizontal menu</u>	Pass	OK
Main window	Pass	OK
zone, cal dut test pass, level		
<u>Auto set</u>		
Period, positive width	Pass	OK
Rise time, Fall time		
Probe Voltage x (1,10,100,1000)		OK
Cal Output	Pass	5 Vpp 1kHz

CH1 : Band Width Relative to 50KHZ (-3)dB Point 70MHz Pass

CH2 : Band Width Relative to 50KHZ (-3)dB Point 70 MHz Pass

Band Width Limited Opration 50 MHZ 4.2 Div

End of calibration cert.

Calibration Result

Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Page 1 of 3

Certificate NO.

B9780/02/6

Customer's Requested

Re-Cal.Date

1405/06/15

Date of Issue

1402/06/16

Calibration Date

1402/06/15

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 171380

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Vernier caliper

Manufacturer : Erton

Model : ----

Resolution : 0.02mm

Serial No : HS108051316

Range : (0-150)mm

Calibration Report

1) Reference Standards & Traceability :

- 1- Gauge block set grade "0", Cert. NO.: 21838 ط 28396 ط
- 2- Gauge block fixture, S/N.: 44 , Cert. NO.: 3461 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-0358

3) Environmental Condition : Temperature: (20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

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Certificate NO. B9780/02/6

5-1. Outside measurement result:

Unit: mm

REF. VALUE	UUC READING			ERROR			MPE	EXP.UN
	TIP	MIDDLE	END	TIP	MIDDLE	END		
5.12	5.12	5.12	5.12	0.00	0.00	0.00	± 0.02	± 0.012
10.24	10.24	10.24	10.24	0.00	0.00	0.00		
15.36	15.36	15.36	15.36	0.00	0.00	0.00		
21.5	21.50	21.50	21.50	0.00	0.00	0.00		
40	40.00	40.00	40.00	0.00	0.00	0.00		
60.24	60.22	60.24	60.24	-0.02	0.00	0.00		
71.5	71.48	71.50	71.50	-0.02	0.00	0.00		
100	99.98	100.00	100.02	-0.02	0.00	0.02		
125.5	125.48	125.50	125.52	-0.02	0.00	0.02	± 0.03	
150	149.98	150.00	150.02	-0.02	0.00	0.02		

*5-2. Inside measurement result:

Unit: mm

REF. VALUE	UUC READING	ERROR	MPE	EXP.UN
5.12	5.16	0.04	± 0.02	± 0.012
10.24	10.28	0.04		
15.36	15.40	0.04		
21.5	21.54	0.04		
40	40.04	0.04		
60.24	60.28	0.04		
71.5	71.54	0.04		
100	100.04	0.04		
125.5	125.54	0.04	± 0.03	
150	150.04	0.04		

ERRORS RESULTS :

1. Limited used: Errors identified thus "*" exceed Permissible Value.
2. The Used of the device is Determined by user Measuring Management System.

End of calibration cert.

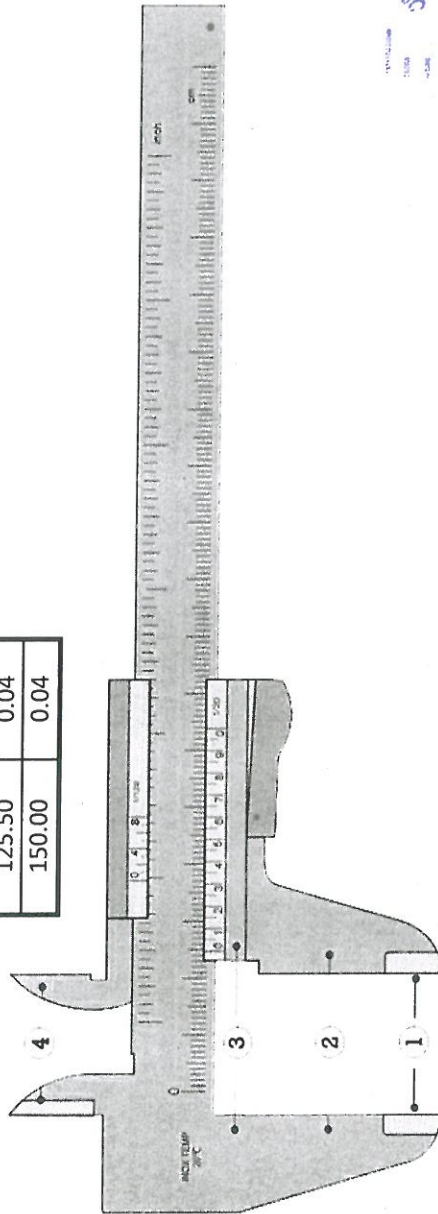
Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Calibration Result

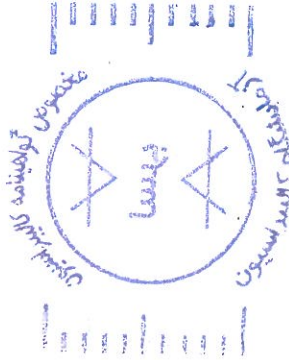
4	
REF. VALUE	ERROR
5.12	0.04
10.24	0.04
15.36	0.04
21.50	0.04
40.00	0.04
60.24	0.04
71.50	0.04
100.00	0.04
125.50	0.04
150.00	0.04



REF. VALUE	1	2	3
5.12	0.00	0.00	0.00
10.24	0.00	0.00	0.00
15.36	0.00	0.00	0.00
21.50	0.00	0.00	0.00
40.00	0.00	0.00	0.00
60.24	-0.02	0.00	0.00
71.50	-0.02	0.00	0.00
100.00	-0.02	0.00	0.02
125.50	-0.02	0.00	0.02
150.00	-0.02	0.00	0.02

Certificate NO. B9780/02/6

Page 3 of 3



1 TIP 2 MIDDLE 3 END 4 Depth 5 Inside

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Certificate NO.

B9780/02/5

Customer's Requested

Re-Cal.Date

1405/06/15

Date of Issue

1402/06/16

Calibration Date

1402/06/15

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 258984

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital caliper

Manufacturer : Insize

Model : ----

Resolution : 0.01mm

Serial No : 0905222518

Range : (0-200)mm

Calibration Report

1) Reference Standards & Traceability :

- 1- Gauge block set grade "0", Cert. NO.: 21838 ط 28396 ط
- 2- Gauge block set, S/N.: 517741, Cert. NO.: 00-0295
- 3- Gauge block fixture, S/N.: 44, Cert. NO.: 3461 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-0358

3) Environmental Condition : Temperature: (20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

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Certificate NO. B9780/02/5

5-1. Outside measurement result:

Unit: mm

REF. VALUE	UUC READING			ERROR			MPE	EXP.UN
	TIP	MIDDLE	END	TIP	MIDDLE	END		
5.12	5.12	5.12	5.12	0.00	0.00	0.00	± 0.02	± 0.007
10.24	10.24	10.24	10.24	0.00	0.00	0.00		
21.5	21.50	21.50	21.50	0.00	0.00	0.00		
40	40.00	40.00	40.00	0.00	0.00	0.00		
60.24	60.24	60.24	60.24	0.00	0.00	0.00		
71.5	71.50	71.50	71.50	0.00	0.00	0.00		
100	100.00	100.00	100.01	0.00	0.00	0.01	± 0.03	
125.5	125.50	125.50	125.51	0.00	0.00	0.01		
150	149.99	150.00	150.01	-0.01	0.00	0.01		
200	199.98	200.00	200.02	-0.02	0.00	0.02		

5-2. Inside measurement result:

Unit: mm

REF. VALUE	UUC READING	ERROR	MPE	EXP.UN
5.12	5.14	0.02	± 0.02	± 0.007
10.24	10.26	0.02		
21.5	21.52	0.02		
40	40.02	0.02		
60.24	60.26	0.02		
71.5	71.52	0.02		
100	100.02	0.02	± 0.03	
125.5	125.53	0.03		
150	150.03	0.03		
200	200.03	0.03		

5-3. Depth measurment result: +0.01 mm error

ERRORS RESULTS :

All of the errors are within the range of permissible error

End of calibration cert.



Abbreviations.

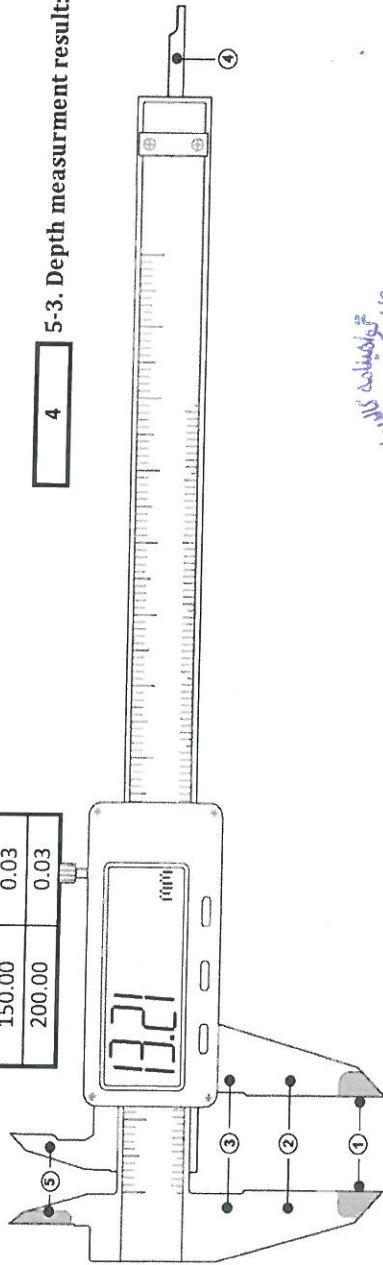
UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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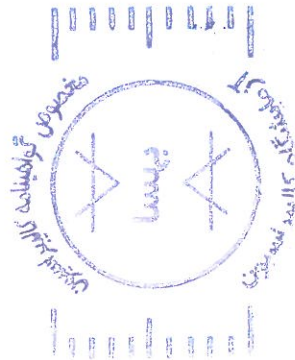
Calibration Result

5	
REF. VALUE	ERROR
5.12	0.02
10.24	0.02
21.50	0.02
40.00	0.02
60.24	0.02
71.50	0.02
100.00	0.02
125.50	0.03
150.00	0.03
200.00	0.03

Certificate NO. B9780/02/5
Page 3 of 3



4 5-3. Depth measurement result: +0.01 mm error



REF. VALUE	1	2	3
5.12	0.00	0.00	0.00
10.24	0.00	0.00	0.00
21.50	0.00	0.00	0.00
40.00	0.00	0.00	0.00
60.24	0.00	0.00	0.00
71.50	0.00	0.00	0.00
100.00	0.00	0.00	0.01
125.50	0.00	0.00	0.01
150.00	-0.01	0.00	0.01
200.00	-0.02	0.00	0.02

1 TIP 2 MIDDLE 3 END 4 Depth 5 Inside

Certificate Of Calibration

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Certificate NO.

B9780/02/4

Customer's Requested

Re-Cal.Date

1405/06/15

Date of Issue

1402/06/16

Calibration Date

1402/06/15

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 258983

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital caliper

Manufacturer : Insize

Model : -----

Resolution : 0.01mm

Serial No : 0908222569

Range : (0-300)mm

Calibration Report

1) Reference Standards & Traceability :

- 1- Gauge block set grade "0" , Cert. NO.: 21838 و 28396 ط
- 2- Gauge block set, S/N.: 517741, Cert. NO.: 00-0295
- 3- Gauge block fixture, S/N.: 44 , Cert. NO.: 3461 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-0358

3) Environmental Condition : Temperature: (20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
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Certificate NO. B9780/02/4

5-1. Outside measurement result:

Unit: mm

Unit: mm

REF. VALUE	UUC READING			ERROR			MPE	EXP.UN
	TIP	MIDDLE	END	TIP	MIDDLE	END		
5.12	5.12	5.12	5.12	0.00	0.00	0.00	± 0.02	± 0.008
15.36	15.35	15.36	15.36	-0.01	0.00	0.00		
21.5	21.49	21.50	21.50	-0.01	0.00	0.00		
40	39.99	40.00	40.00	-0.01	0.00	0.00		
71.5	71.48	71.50	71.50	-0.02	0.00	0.00		
100	99.98	100.00	100.00	-0.02	0.00	0.00	± 0.03	
155.5	155.48	155.50	155.50	-0.02	0.00	0.00		
200	199.97	199.98	200.01	-0.03	-0.02	0.01		
250	249.97	249.98	250.01	-0.03	-0.02	0.01		
300	299.97	299.98	300.01	-0.03	-0.02	0.01		

5-2. Inside measurement result:

Unit: mm

REF. VALUE	UUC READING	ERROR	MPE	EXP.UN
5.12	5.13	0.01	± 0.02	± 0.008
15.36	15.37	0.01		
21.5	21.51	0.01		
40	40.01	0.01		
71.5	71.51	0.01		
100	100.01	0.01	± 0.03	
155.5	155.52	0.02		
200	200.02	0.02		
250	250.02	0.02		
300	300.02	0.02		

5-3. Depth measurement result: +0.03 mm error

ERRORS RESULTS :

All of the errors are within the range of permissible error

End of calibration cert.

Abbreviations.

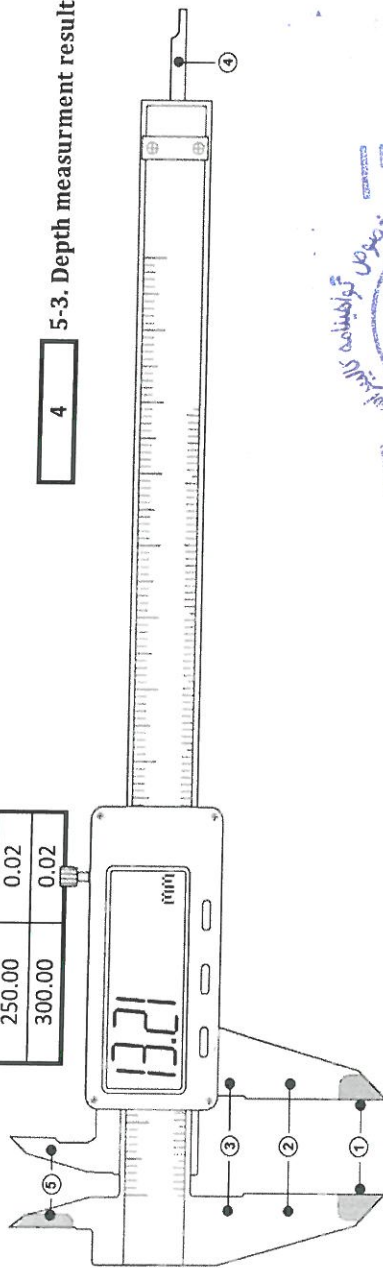
UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Calibration Result

5	
REF. VALUE	ERROR
5.12	0.01
15.36	0.01
21.50	0.01
40.00	0.01
71.50	0.01
100.00	0.01
155.50	0.02
200.00	0.02
250.00	0.02
300.00	0.02

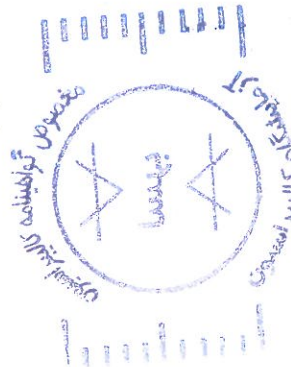
Certificate NO. B9780/02/4
Page 3 of 3



4 5-3. Depth measurement result: ± 0.03 mm error

REF. VALUE	1	2	3
5.12	0.00	0.00	0.00
15.36	-0.01	0.00	0.00
21.50	-0.01	0.00	0.00
40.00	-0.01	0.00	0.00
71.50	-0.02	0.00	0.00
100.00	-0.02	0.00	0.00
155.50	-0.02	0.00	0.00
200.00	-0.03	-0.02	0.01
250.00	-0.03	-0.02	0.01
300.00	-0.03	-0.02	0.01

1 TIP
2 MIDDLE
3 END
4 Depth
5 Inside



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Certificate NO.

B9780/02/10

Customer's Requested
Re-Cal.Date

1405/09/06

Date of Issue

1402/09/07

Calibration Date

1402/09/06

Customer & Equipment Specification

Client : تجهیزات آمیتیس کیان

Calibration Code : 274548

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Digital Professional Insulation Tester Manufacturer : UNI-T

Model : UT513

Resolution : -----

Serial No : C213657196

Range : Multi Range

Calibration Report

1) Reference Standards & Traceability :

- 1- Fluke 9100; Multi-Function Calibrator S/N.:991358791, Cert. NO.:MVZF2E
- 2- Digital Multimeter S/N.: 31906428, Cert. NO. B0101/1028
- 3- High Voltage Probe , Model: HV-40 , S/N.: 12011299 , Cert. NO.: 0001344-04
- 4- Resistance Box, Model: DB-62 , S/N.: 136 , Cert. NO.: B0101/1023

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : IDS-GDL-342

3) Environmental Condition : Temperature:(23±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager

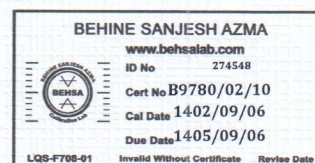
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Lab. Stamp

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Certificate NO. B9780/02/10

5-1. DC VOLTAGE INPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	V	1V	30.0000	31	1.0000	± 0.6 V	±(2%rdg+8dgt)
2			50.000	51	1.000		
3			100.000	101	1.000		
4			200.000	201	1.000		±(2%rdg+5dgt)
5			300.000	302	2.000		
6			400.00	403	3.00		
7			500.00	503	3.00		
8			590.00	593	3.00		

5-2. AC VOLTAGE INPUT (50Hz)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	V	1 V	30.0000	27	-3.0000	± 0.6 V	±(2%rdg+8dgt)
2			50.000	48	-2.000		
3			100.000	98	-2.000		
4			200.000	199	-1.000	± 0.7 V	±(2%rdg+5dgt)
5			300.000	299	-1.000		
6			400.00	400	0.00	± 1.0 V	
7			500.00	501	1.00	± 1.1 V	
8			590.00	592	2.00	± 1.2 V	

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

Certificate Of Calibration

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Page 3 of 5

Certificate NO. B9780/02/10

5-3. MΩ/INSOLUTION RESISTANCE (500 V/DC)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	MΩ	0.1MΩ	1.00000	1.0	0.00000	± 0.06 MΩ	±(3%rdg+5dgt)
2			2.00000	2.0	0.00000		
3			5.0000	5.0	0.0000	± 0.07 MΩ	
4			10.0000	10.0	0.0000	± 0.08 MΩ	
5			20.0000	20.0	0.0000	± 0.11 MΩ	
6			50.000	49.8	-0.200	± 0.41 MΩ	
7		1MΩ	100.000	100	0.000	± 1.0 MΩ	±(5%rdg+5dgt)
8			200.000	200	0.000	± 1.6 MΩ	
9			300.000	300	0.000	±6.8 MΩ	
10			500.00	500	0.00	± 8.9 MΩ	
11			1000.00	1000	0.00	± 19.3 MΩ	
12			2000.00	1980	-20.00	± 37.2 MΩ	

Calibration Result



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Page 4 of 5

Certificate NO. B9780/02/10

5-4. MΩ/INSOLUTION RESISTANCE (1000 V/DC)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	MΩ	0.1MΩ	1.00000	1.0	0.00000	± 0.06 MΩ	±(3%rdg+5dgt)
2			2.00000	2.0	0.00000		
3			5.0000	5.0	0.0000	± 0.07 MΩ	
4			10.0000	10.0	0.0000	± 0.08 MΩ	
5			20.000	20.0	0.000	± 0.11 MΩ	
6			50.000	49.6	-0.400	± 0.41 MΩ	
7	MΩ	1MΩ	100.000	99	-1.000	± 1.0 MΩ	±(5%rdg+5dgt)
8			200.000	199	-1.000	± 1.6 MΩ	
9			300.000	298	-2.000	± 6.8 MΩ	
10			500.00	498	-2.00	± 8.9 MΩ	
11			1000.00	998	-2.00	± 19.3 MΩ	
12	GΩ	0.01GΩ	2.00000	1.97	-0.03000	± 0.038 GΩ	

Calibration Result



Abbreviations.

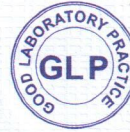
UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Page 5 of 5

Certificate NO. B9780/02/10

5-5. MΩ/INSOLUTION RESISTANCE (2500 V/DC)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	MΩ	0.1MΩ	5.0000	5.0	0.0000	± 0.06 MΩ	±(3%rdg+5dgt)
2			10.0000	10.0	0.0000	± 0.07 MΩ	
3			20.0000	20.0	0.0000	± 0.11 MΩ	
4			50.0000	49.0	-1.000	± 0.41 MΩ	
5			100.000	99	-1.500	± 0.74 MΩ	
6		1MΩ	200.000	200	0.000	± 1.5 MΩ	±(5%rdg+5dgt)
7			300.000	297	-3.000	± 6.7 MΩ	
8			500.00	495	-5.00	± 8.9 MΩ	
9			1000.00	995	-5.00	± 19.3 MΩ	
10	GΩ	0.01GΩ	2.00000	1.99	-0.01000	± 0.038 GΩ	

5-6.MΩ/INSOLUTION RESISTANCE (5000 V/DC)

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN	ACC
1	MΩ	0.1MΩ	10.0000	10.00	0.0000	± 0.07 MΩ	±(3%rdg+5dgt)
2			20.0000	20.6	0.6000	± 0.11 MΩ	
3			50.000	49.6	-0.400	± 0.41 MΩ	
4			100.000	99.5	-0.500	± 0.9 MΩ	
5		1MΩ	200.000	200	0.000	± 1.6 MΩ	±(5%rdg+5dgt)
6			300.000	300	0.00	± 6.8 MΩ	
7			500.00	500	0.00	± 8.9 MΩ	
8			1000.00	990	-10.00	± 19.3 MΩ	
9	GΩ	0.01GΩ	2.00000	1.98	-0.02000	± 0.038 GΩ	±(5%rdg+5dgt)

5-7.MΩ/INSOLUTION VOLTAGE OUTPUT

NO	RANGE	RESOLUTION	REF. SETTING	UUC READING	ERROR	EXP.UN
1	V	1V	596	575	-21	± 0.6 MΩ
2			1148	1107	-41	± 1.2%rdg
3			2963	2870	-93	
4			5660	5542	-118	

ERRORS RESULTS :

The Permissible error Value is Determined by Comparing with Accuracy.

End of calibration cert.



Abbreviations.

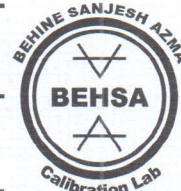
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Certificate Of Calibration

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Neek Azma



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Certificate NO. B9780/02/12

Customer's Requested

Re-Cal.Date

1405/08/28

Date of Issue

1402/08/29

Calibration Date

1402/08/28

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 274550

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Go & Not Go Thread Plug gauge

Manufacturer : Grand

Model : ----

Resolution : ---

Serial No : 0815

Range : M20 x1.5-6H

Calibration Report

1) Reference Standards & Traceability :

- Universal Length Measuring System ,Model: EX-100 , Cert. NO.: 17711 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : Working instruction NO. BWI-CD-09

3) Environmental Condition : Temperature: (20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager

A.PARAND

Lab. Stamp

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Cert No 1402/08/28

Cal Date 1405/08/28

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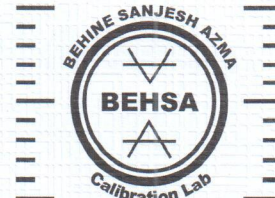
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Certificate NO. B9780/02/12

Unit: μm

ITEM	UPPER LIMIT	LOWER LIMIT	REF. MEASURED VALUE			EXP.UN
			Max.	Min.	Ave.	
Go	19.0337	19.02572	19.0318	19.0300	19.0309	± 0.12
Not Go	19.2157	19.2077	19.2114	19.2080	19.2097	

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

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Calibration Result

Certificate Of Calibration

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Neek Azma



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Certificate NO.

B9780/02/13

Customer's Requested

Re-Cal.Date

1405/08/28

Date of Issue

1402/08/29

Calibration Date

1402/08/28

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 274551

Client Add : 5 واحد 14-جادی پلاک-کوچه حاجی جواد هرنمندان-پارک

Department : ---

Location : ---

Equipment : Go & Not Go Thread Plug gauge

Manufacturer : Grand

Model : ----

Resolution : ---

Serial No : YY-2022-0328-06P

Range : M25 ×1.5-6H

Calibration Report

1) Reference Standards & Traceability :

- Universal Length Measuring System ,Model: EX-100 , Cert. NO.: 17711 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : Working instruction NO. BWI-CD-09

3) Environmental Condition : Temperature:(20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager

A.PARAND

Lab. Stamp

Calibrated By

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Due Date 1405/08/28

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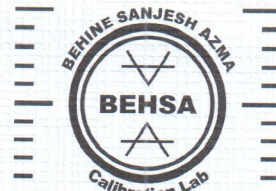
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Certificate NO. B9780/02/13

Unit: μm

ITEM	UPPER LIMIT	LOWER LIMIT	REF. MEASURED VALUE			EXP.UN
			Max.	Min.	Ave.	
Go	24.0337	24.02570	24.0317	24.0291	24.0304	± 0.12
Not Go	24.2257	24.2177	24.2206	24.2192	24.2199	

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

Certificate Of Calibration

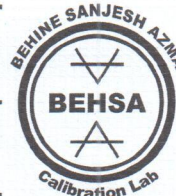
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Neek Azma



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Certificate NO.

B9780/02/11

Customer's Requested

Re-Cal.Date

1405/08/28

Date of Issue

1402/08/29

Calibration Date

1402/08/28

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 274549

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Go & Not Go Thread Plug gauge

Manufacturer : Grand

Model : ----

Resolution : ----

Serial No : YY-2022-0401-05P

Range : M32 ×1.5-6H

Calibration Report

1) Reference Standards & Traceability :

- Universal Length Measuring System ,Model: EX-100 , Cert. NO.: 17711 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : Working instruction NO. BWI-CD-09

3) Environmental Condition : Temperature:(20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

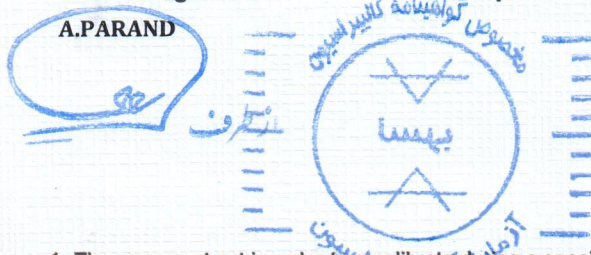
The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager

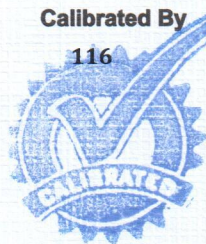
A.PARAND

Lab. Stamp



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Cert No B9780/02/11

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Certificate NO. B9780/02/11

Unit: μm

ITEM	UPPER LIMIT	LOWER LIMIT	REF. MEASURED VALUE			EXP.UN
			Max.	Min.	Ave.	
Go	31.0337	31.0257	31.0312	31.0289	31.0301	± 0.13
Not Go	31.2257	31.2177	31.2224	31.2191	31.2208	

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

Certificate Of Calibration

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Customer's Requested

Re-Cal.Date

1405/08/28

Date of Issue

1402/08/29

Calibration Date

1402/08/28

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 274553

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Go & Not Go Thread Plug gauge

Manufacturer : Grand

Model : ----

Resolution : ---

Serial No : 1808

Range : M40 x1.5-6H

Calibration Report

1) Reference Standards & Traceability :

- Universal Length Measuring System ,Model: EX-100 , Cert. NO.: 17711 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : Working instruction NO. BWI-CD-09

3) Environmental Condition : Temperature: (20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager

A.PARAND

Lab. Stamp

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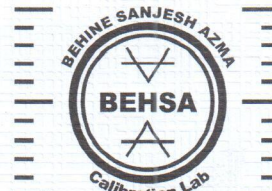
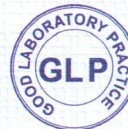
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Certificate NO. B9780/02/15

Unit: μm

ITEM	UPPER LIMIT	LOWER LIMIT	REF. MEASURED VALUE			EXP.UN
			Max.	Min.	Ave.	
Go	39.0357	39.0257	39.0282	39.0272	39.0277	± 0.14
Not Go	39.2257	39.2157	39.2204	39.2169	39.2187	

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.



Abbreviations.

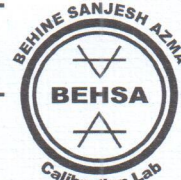
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Certificate Of Calibration

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Neek Azma



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Certificate NO.

B9780/02/16

Customer's Requested

Re-Cal.Date

1405/08/28

Date of Issue

1402/08/29

Calibration Date

1402/08/28

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 274554

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Go & Not Go Thread Plug gauge

Manufacturer : Grand

Model : ----

Resolution :

Serial No : 2502

Range : M50 x1.5-6H

Calibration Report

1) Reference Standards & Traceability :

- Universal Length Measuring System ,Model: EX-100 , Cert. NO.: 17711 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : Working instruction NO. BWI-CD-09

3) Environmental Condition : Temperature:(20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager
A.PARAND

Lab. Stamp

Calibrated By
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Page 2 of 2

Certificate NO. B9780/02/16

Unit: μm

ITEM	UPPER LIMIT	LOWER LIMIT	REF. MEASURED VALUE			EXP.UN
			Max.	Min.	Ave.	
Go	49.0357	49.0257	49.0312	49.0281	49.0297	± 0.14
Not Go	49.2377	49.2277	49.2312	49.2292	49.2302	

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error

LQS-F708-01
Revise Date : 00/09

Calibration Result

Certificate Of Calibration

Behine Sanjesh Azma Eng.



نیک آزما
Neek Azma



3rd Floor, No 259, Behsa Building, Corner of Modares, Highway, Opposite Sarafraz St, Dr. Beheshti Ave
Tehran-Iran www.behsalab.com Tel: +9821-88531320 - 88170671 - 88170634 Fax: +9821 88533329

Page 1 of 2

Certificate NO.

B9780/02/14

Customer's Requested

Re-Cal.Date

1405/08/28

Date of Issue

1402/08/29

Calibration Date

1402/08/28

Customer & Equipment Specification

Client : تجهیز آمیتیس کیان

Calibration Code : 274552

Client Add : خیابان ایرانشهر-روبروی پارک هنرمندان-کوچه حاجی جوادی-پلاک 14-واحد 5

Department : ---

Location : ---

Equipment : Go & Not Go Thread Plug gauge

Manufacturer : Grand

Model : ----

Resolution : ----

Serial No : 3301

Range : M63 x1.5-6H

Calibration Report

1) Reference Standards & Traceability :

- Universal Length Measuring System ,Model: EX-100 , Cert. NO.: 17711 ط

The reference standards are traceably calibrated to national and international metrology institute

2) Calibration Method : Working instruction NO. BWI-CD-09

3) Environmental Condition : Temperature:(20±2) °C Humidity: (35-55) %RH Pressure: (871±5) mbar

4) Uncertainty :

The reported expanded uncertainty of measurement is estimated in accordance with EAL publication. EA4/02 with attention to coverage factor k=2, for normal distribution, provided a level confidence of approximately 95%

5) Calibration result: As appendix pages

Lab. Manager

A.PARAND

Lab. Stamp

Calibrated By

116

NACI
ISO/IEC 17025

BEHINE SANJESH AZMA

www.behsalab.com

ID No B9780/02/14

Cert No 1402/08/28

Cal Date 1405/08/28

Due Date

LQS-F708-01 Invalid Without Certificate Revise Date

1- The user must act in order to recalibrate during a specified period of time .

2- This certificate shall not be published or reproduced other than in full .

3- This certificate is not valid without special stamp & Hologram of issuant laboratory .

LQS-F708-01
Revise Date :00/08

Certificate Of Calibration

Behine Sanjesh Azma Eng.

3rd Floor, No 259, Behsa Building, Corner of Modares,
Highway, Opposite Sarafriz St, Dr. Beheshti Ave
Tehran-Iran www.behsalab.com Tel: +9821- 45526
88531320 - 88170671 - 88170634 Fax: +9821 88533329



Page 2 of 2

Certificate NO. B9780/02/14

Unit: μm

ITEM	UPPER LIMIT	LOWER LIMIT	REF. MEASURED VALUE			EXP.UN
			Max.	Min.	Ave.	
Go	62.0357	62.0257	62.0314	62.0281	62.0298	± 0.15
Not Go	62.2377	62.2277	63.2311	62.2289	62.7300	

ERRORS RESULTS :

The Permissible error Value is Determined by user Measuring Management System.

End of calibration cert.



Abbreviations.

UUC.: Unit Under Calibration Ref. : Reference EXP.UN. : Expanded Uncertainty MPE. : Maximum Permissible Error