



ISO/IEC 17025:2017

מעבדות כיוול

תעודת הסמכה מס' 10 מעבדות הכיוול רפא"ל מחלקת אא"כ ואחזקה 78

כתובת אתר ייחוס: מחלקת אא"כ ואחזקה 78, ת.ד. 2250, חיפה, 3102102

עד יום: 23.06.2024

בתוקף מיום: 15.02.2022

הארגון נבדק ונבחן על ידי הרשות הלאומית להסמכת מעבדות (להלן הרשות) ונמצא ראוי להסמכה בהתאם לנספח פירוט היקף ההסמכה המצורף לתעודה זו, המהווה חלק בלתי נפרד ממנה ומספרו זהה למספר התעודה. הסמכה מצביעה על כשירות מקצועית ותפעול מערכת ניהול איכות בעלת הכרה בינלאומית. הארגון המוסמך על ידי הרשות, עומד בתקנים / דרישות המפורטים מעלה. דרישות התקנים הם לכשירות מקצועית ולמערכות ניהול, שהינן הכרחיות למתן תוצאות אמינות. הסמכה זו ניתנה בהתאם לכללי תקן ISO/IEC 17011:2017 לפיהם פועלת הרשות ובמסגרתם מקיימת פיקוח שוטף על הארגון לצורך בחינת תפקודו המתמשך בהתאם לדרישות ההסמכה. ההסמכה תקפה כל עוד הארגון עונה לאמות המידה שנקבעו על ידי הרשות. הרשות חתומה על הסכם הכרה דו צדדי (BLA) מול ארגון European co-operation for Accreditation (EA).

תעודה זו אינה מהווה אישור לפי סעיף 12 לחוק התקנים.

תאריך הסמכה ראשון: 24.06.1996

אתי פלר
מנכ"ל
הרשות הלאומית להסמכת מעבדות



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Calibration Laboratories

ISO/IEC 17025:2017

Accreditation Certificate No. 10
Rafael - Calibration Laboratories

Main site address: Quality and Maintenance Dept. 78, P.O.B. 2250, Haifa 3102102, Israel

Valid from: 15.02.2022

Until: 23.06.2024

The organization was assessed by the Israel Laboratory Accreditation Authority (ISRAC) and found to be worthy of accreditation to the detailed schedule attached.

The schedule is an integral part of this certificate and is numbered with the above certificate number.

Accreditation demonstrates technical competence and operation of an internationally recognized quality management system.

The organization accredited by ISRAC complies with the standards / requirements mentioned above, meets the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically competent results. This accreditation is granted in accordance with the requirements of the standard ISO/IEC 17011:2017, and entails periodic surveillance and reassessment by ISRAC to ensure that the organization continues to comply with the accreditation requirements.

The accreditation is valid provided that the organization continues to meet the criteria as laid down by ISRAC. ISRAC is an EA-BLA (European co-operation for Accreditation Bi-Lateral Agreement) signatory.

This certificate does not constitute an approval in accordance with article 12 of the standard law.

Date of first accreditation: 24.06.1996

Etty Feller
General Manager
Israel Laboratory Accreditation Authority

Date of signature 21/02/2022

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Name and Address:

Organization name	Rafael - Calibration Laboratories
Address	Quality and Maintenance Dept.78 P.O.B. 2250 Haifa 31021, Israel
Phone	+972-73-335-3952
E- mail (contact person)	danielt@rafael.co.il

As declared by the Organization, following is a list of the permanent sites and the phones numbers at which accredited activities are performed.

- P Haifa +972-73-335-3952
- P1 Leshem +972-73-335-4722

Site: P or T or M , P-Permanent, T-Temporary, M-Mobile

A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and / or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).

Type of Scopes: A- Fixed, C- Flexible scope in analytical tests : Type of matrix, analytes, experimental systems and/or analytical characteristics may be subject to changes, in accordance with the laboratory's approved and documented procedures. For details, please refer to the list of Accredited Tests, available from the laboratory upon request.



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
1	A	P	DC Voltage, Measuring Instruments	מכשירי מדידת מתח בורם ישר	±100 mV	4.5 μV/V	Manufacturer instructions SOP 10700	Standard cell: Fluke 732A UUT:Fluke DMM 8508A Main calibrator: Datron 4808
2	A	P			±1 V	1 μV/V		
3	A	P			±1.018 V	2.5 μV/V		
4	A	P			±10 V	1 μV/V		
5	A	P			±100 V	1.5 μV/V		
6	A	P			±1000 V	2.5 μV/V		
7	A	P			Short	340 nV		
8	A	P			[0 mV to 200 mV]	4.5μV		
9	A	P			(200 mV to 2 V]	4.5 μV/V		
10	A	P			(2 V to 20 V]	4.5 μV/V		
11	A	P			(20 V to 200 V]	4.5 μV/V		
12	A	P			(200 V to 1000 V]	5.5 μV/V		
13	A	T			Short	0.1 μV		
14	A	T			[0 to 200 mV]	4 μV		
15	A	T			(200 mV to 2 V]	8 μV/V		
16	A	T			(2 V to 20 V]	5 μV/V		
17	A	T			(20 V to 200 V]	5 μV/V		
18	A	T			(200 V to 1100 V]	3.5 μV/V		
19	A	P	DC Voltage, High Voltage probe	פרוב מתח גבוה בורם ישר	[1 kV to 40 kV]	0.1 %	Manufacturer instructions SOP 11400	High Voltage power supply DMM 6.5 digits



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
20	A	P	DC Voltage, Sources	מחוללי מתח בזרם ישר	±100 mV	2 μV/V	Manufacturer instructions	Standard cell: Fluke 732A
21	A	P			±1 V	1 μV/V	SOP 10500	DMM: Fluke 8508A
22	A	P			±1.018 V	1 μV/V	SOP 10650	Main Calibrator: Fluke 732A or Datron 4808
23	A	P			±10 V	1 μV/V		
24	A	P			±100 V	1 μV/V		
25	A	P			±1000 V	1.9 μV/V		DMM: Wavetek MTS 4950
26	A	P			[0 to 200 mV]	1μV		
27	A	P			(200 mV to 2 V]	3 μV/V		
28	A	P			(2 V to 20 V]	3μV/V		
29	A	P			(20 V to 200 V]	3.5μV/V		
30	A	P			(200 V to 1000 V]	3.5μV/V		
31	A	T			[0 to 50 mV]	1 μV		DMM: Fluke 8508A
32	A	T			(50 mV to 200 mV]	17 μV/V		Main Calibrator: Datron 4808
33	A	T			(200 mV to 2 V]	4.5 μV/V		
34	A	T			(2 V to 20 V]	3.5 μV/V		
35	A	T			(20 V to 200 V]	3 μV/V		
36	A	T			(200 V to 1100 V]	5.5 μV/V		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
37	A	P	DC Current, Measuring Instruments	זרם ישר, מכשירי מדידה	100 μA	8.5 μA/A	Manufacturer instructions SOP 10700	Standard resistors
38	A	P			1 mA	4 μA/A		Fluke DMM 8508A
39	A	P			10 mA	4.5 μA/A		Wavetek MTS 4950
40	A	P			100 mA	3.5 μA/A		Datron Calibrator 4808
41	A	P			1 A	4.5 μA/A		
42	A	P			10 A	29 μA/A		Datron 4600
43	A	P			Open	0.1 nA		Transconductance amplifier
44	A	P			[0 to 200 μ A]	1.5 nA		Wavetek 9100
45	A	P			(200 μA to 2 mA]	8 nA		Current Coils
46	A	P			(2 mA to 20 mA]	77 nA		
47	A	P			(20 mA to 200 mA]	1 μA		
48	A	P			(200 mA to 2 A]	7 μA		
49	A	P			(2 A to 11 A]	30 μA/A		
50	A	T			Open	0.1 nA		Datron Calibrator 4808
51	A	T			[0 μA to 20 μA]	5 nA		
52	A	T			(20 μA to 50 μA]	1 nA		
53	A	T			(50 μA to 200 μA]	9 μA/A		
54	A	T			(200 μA to 1 mA]	4 nA		
55	A	T			(1 mA to 2 mA]	10 μA/A		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
56	A	T			(2 mA to 10 mA]	0.1 μA		
57	A	T			(10 mA to 20 mA]	10 μA/A		
58	A	T			(20 mA to 100 mA]	1 μA		
59	A	T			(100 mA to 200 mA]	15 μA/A		
60	A	T			(200 mA to 500 mA]	21 μA		
61	A	T			(500 mA to 2 A]	21 μA/A		
62	A	T			(2 A to 5 A]	1 mA		
63	A	T			(5 A to 10 A]	120 μA/A		
64	A	P	DC Current, Sources	זרם ישר, מקורות	100 μA	8.5 μA/A	Manufacturer instructions	Standard resistors
65	A	P			1 mA	3.5 μA/A	SOP 10560	Fluke DMM 8508A
66	A	P			10 mA	4.5 μA/A	SOP 10650	Wavetek MTS 4950
67	A	P			100 mA	3.5 μA/A		Datron 4808
68	A	P			1 A	4.5 μA/A		Datron 9100
69	A	P			10 A	24 μA/A		Current coils
70	A	P			[0 μA to 200 μA]	4 nA		Current clamp
71	A	P			(200 μA to 2 mA]	17 μA/A		
72	A	P			(2 mA to 20 mA]	17 μA/A		
73	A	P			(20 mA to 200 mA]	50 μA/A		
74	A	P			(200 mA to 2 A]	50 μA/A		
75	A	P			(2 A to 11 A]	200 μA/A		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
76	A	T			[0 μA to 10 μA]	4 nA		
77	A	T			(10 μA to 100 μA]	1 nA		
78	A	T			(100 μA to 200 μA]	1 nA		
79	A	T			(200 μA to 1 mA]	34 nA		
80	A	T			(1 mA to 2 mA]	34 nA		
81	A	T			(2 mA to 10 mA]	1μA		
82	A	T			(10 mA to 20 mA]	1 μA		
83	A	T			(20 mA to 100 mA]	10 μA		
84	A	T			(100 mA to 200 mA]	10 μA		
85	A	T			(200 mA to 1 A]	74 μA		
86	A	T			(1 A to 2 A]	74 μA/A		
87	A	T			(2 A to 11 A]	182 μA/A		
88	A	T			(11 A to 1000 A]	17 mA/A		
89	A	P	DC Resistance, Resistors	התנגדות זרם ישר, נגדים	0.001 Ω	75 μΩ/Ω	Manufacturer instructions SOP 10800	Standard resistors
90	A	P			0.01 Ω	20 μΩ/Ω		Datron 4808
91	A	P			0.1 Ω	10 μΩ/Ω		Wavetek 9100
92	A	P			1 Ω	1 μΩ/Ω		Fluke 8508A
93	A	P			10 Ω	2 μΩ/Ω		Wavetek 4950
94	A	P			25 Ω	4 μΩ/Ω		
95	A	P			50 Ω	4 μΩ/Ω		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
96	A	P		100 Ω	3 μΩ/Ω	Manufacturer instructions SOP 10650	Keithley 5155
97	A	P		200 Ω	4 μΩ/Ω		
98	A	P		400 Ω	8 μΩ/Ω		
99	A	P		1 kΩ	5 μΩ/Ω		
100	A	P		10 kΩ	10 μΩ/Ω		
101	A	P		100 kΩ	10 μΩ/Ω		
102	A	P		1 MΩ	10 μΩ/Ω		
103	A	P		10 MΩ	20 μΩ/Ω		
104	A	P		100 MΩ	50 μΩ/Ω		
105	A	P		1 GΩ	0.1 %		
106	A	P		10 GΩ	2 mΩ/Ω		
107	A	P		100 GΩ	1 mΩ/Ω		
108	A	P		1000 GΩ	1 mΩ/Ω		
109	A	P		(0 to 1Ω]	23 μΩ		Fluke 8508A
110	A	P		(1 Ω to 20 Ω]	5 μΩ/Ω		
111	A	P		(20 Ω to 200 Ω]	5 μΩ/Ω		
112	A	P		(200 Ω to 2 kΩ]	8 μΩ/Ω		
113	A	P		(2 kΩ to 20 kΩ]	10 μΩ/Ω		
114	A	P		(20 kΩ to 200 kΩ]	10 μΩ/Ω		
115	A	P		(200 kΩ to 2 MΩ]	10 μΩ/Ω		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
116	A	P			(2 MΩ to 20 MΩ]	40 μΩ/Ω		
117	A	P			(20 MΩ to 100 MΩ]	220 μΩ/Ω		
118	A	T			(0 to 1 Ω]	45 μΩ		
119	A	T			(1 Ω to 5 Ω]	43 μΩ/Ω		
120	A	T			(5 Ω to 20 Ω]	25 μΩ/Ω		
121	A	T			(20 Ω to 200 Ω]	18 μΩ/Ω		
122	A	T			(200 Ω to 2 kΩ]	18 μΩ/Ω		
123	A	T			(2 kΩ to 20 kΩ]	18 μΩ/Ω		
124	A	T			(20 kΩ to 200 kΩ]	19 μΩ/Ω		
125	A	T			(200 kΩ to 2 MΩ]	31 μΩ/Ω		
126	A	T			(2 MΩ to 20 MΩ]	95 μΩ/Ω		
127	A	T			(20 MΩ to 100 MΩ]	950 μΩ/Ω		
128	A	P	DC Resistance, Measuring Instruments	התנגדות זרם ישר, מכשירי מדידה	0.001 Ω	90 μΩ/Ω	Manufacturer Instructions SOP 10700	Standard resistors Wavetek 9100 Fluke 8508A G.R. Decade resistors Wavetek 4950
129	A	P			0.01 Ω	30 μΩ/Ω		
130	A	P			0.1 Ω	10 μΩ/Ω		
131	A	P			1 Ω	0.5 μΩ/Ω		
132	A	P			10 Ω	2 μΩ/Ω		
133	A	P			25 Ω	3 μΩ/Ω		
134	A	P			50 Ω	3 μΩ/Ω		
135	A	P			100 Ω	3 μΩ/Ω		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישיר ותדר נמוך		
136	A	P		200 Ω	5 μΩ/Ω		
137	A	P		1 kΩ	5 μΩ/Ω		
138	A	P		10 kΩ	10 μΩ/Ω		
139	A	P		100 kΩ	10 μΩ/Ω		
140	A	P		1 MΩ	10 μΩ/Ω		
141	A	P		10 MΩ	30 μΩ/Ω		
142	A	P		100 MΩ	50 μΩ/Ω		
143	A	P		1 GΩ	0.1 %		Keithley 5155
144	A	P		10 GΩ	0.2 %		
145	A	P		100 GΩ	0.1 %		
146	A	P		1000 GΩ	0.1 %		
147	A	P		(0 to 5 Ω]	120 μΩ		
148	A	P		(5 Ω to 20 Ω]	22 μΩ/Ω		
149	A	P		(20 Ω to 200 Ω]	17 μΩ/Ω		
150	A	P		(200 Ω to 2 kΩ]	15 μΩ/Ω		
151	A	P		(2 kΩ to 20 kΩ]	23 μΩ/Ω		
152	A	P		(20 kΩ to 200 kΩ]	15 μΩ/Ω		
153	A	P		(200 kΩ to 2 MΩ]	37 μΩ/Ω		
154	A	P		(2 MΩ to 20 MΩ]	95 μΩ/Ω		
155	A	P		(20 MΩ to 100 MΩ]	250 μΩ/Ω		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks		
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך				
156	A	T			(0 to 0.1 Ω]	10 μΩ	Manufacturer instructions	Wavetek 9100 G.R. Decade resistors		
157	A	T			(0.1 to 5 Ω]	140 μΩ				
158	A	T			(5 Ω to 20 Ω]	28 μΩ/Ω				
159	A	T			(20 Ω to 200 Ω]	18 μΩ/Ω				
160	A	T			(200 Ω to 2 kΩ]	18 μΩ/Ω				
161	A	T			(2 kΩ to 20 kΩ]	23 μΩ/Ω				
162	A	T			(20 kΩ to 200 kΩ]	19 μΩ/Ω				
163	A	T			(200 kΩ to 2 MΩ]	37 μΩ/Ω				
164	A	T			(2 MΩ to 20 MΩ]	95 μΩ/Ω				
165	A	T			(20 MΩ to 100 MΩ]	950 μΩ/Ω				
166	A	P	AC Voltage, Sources	מתח חילופין, מחוללים	100 mV	45 μV/V	Manufacturer instructions SOP 10650	Datron 4920/4950 Fluke 5730A		
167	A	P			1 kHz				60 μV/V	
168	A	P			30 kHz				65 μV/V	
169	A	P			60 kHz				55 μV/V	
					100 kHz					
170	A	P			300 mV				40 Hz	30 μV/V
171	A	P			1 kHz				30 μV/V	
172	A	P			30 kHz				25 μV/V	
173	A	P			50 kHz				25 μV/V	



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks		
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך				
174	A	P			100 kHz	45 μV/V				
175	A	P			200 kHz	85 μV/V				
176	A	P			500 kHz	180 μV/V				
177	A	P			700 kHz	480 μV/V				
178	A	P			1 MHz	440 μV/V				
1 V										
179	A	P			10 Hz	25 μV/V				
180	A	P			40 Hz	20 μV/V				
181	A	P			1 kHz	20 μV/V				
182	A	P			30 kHz	20 μV/V				
183	A	P			50 kHz	20 μV/V				
184	A	P			60 kHz	30 μV/V				
185	A	P			100 kHz	30 μV/V				
186	A	P			200 kHz	50 μV/V				
187	A	P			500 kHz	90 μV/V				
188	A	P			700 kHz	300 μV/V				
189	A	P			1 MHz	340 μV/V				
3 V										
190	A	P	10 Hz	70 μV/V						
191	A	P	40 Hz	45 μV/V						
192	A	P	1 kHz	20 μV/V						



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks	
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך			
193	A	P			30 kHz	40 μV/V			
194	A	P			50 kHz	35 μV/V			
195	A	P			100 kHz	40 μV/V			
196	A	P			200 kHz	60 μV/V			
197	A	P			500 kHz	150 μV/V			
198	A	P			700 kHz	300 μV/V			
199	A	P			1 MHz	520 μV/V			
200	A	P			5 V	1 kHz			25 μV/V
					10 V				
201	A	P				10 Hz			50 μV/V
202	A	P				40 Hz			50 μV/V
203	A	P				1 kHz			45 μV/V
204	A	P				30 kHz			40 μV/V
205	A	P				50 kHz			20 μV/V
206	A	P				60 kHz			40 μV/V
207	A	P				100 kHz			35 μV/V
208	A	P				200 kHz			50 μV/V
209	A	P				500 kHz			180 μV/V
210	A	P				700 kHz			300 μV/V



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
211	A	P			1 MHz	640 μV/V		
					20 V			
212	A	P			500 kHz	85 μV/V		
213	A	P			700 kHz	300 μV/V		
214	A	P			1 MHz	355 μV/V		
					30 V			
215	A	P			10 Hz	35 μV/V		
216	A	P			40 Hz	25 μV/V		
217	A	P			1 kHz	30 μV/V		
218	A	P			30 kHz	30 μV/V		
219	A	P			50 kHz	30 μV/V		
220	A	P			100 kHz	30 μV/V		
221	A	P			200 kHz	50 μV/V		
					100 V			
222	A	P			10 Hz	35 μV/V		
223	A	P			40 Hz	35 μV/V		
224	A	P	1 kHz	35 μV/V				
225	A	P	30 kHz	30 μV/V				
226	A	P	50 kHz	25 μV/V				
227	A	P	60 kHz	35 μV/V				
228	A	P	100 kHz	45 μV/V				



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישיר ותדר נמוך		
229	A	P		300 V 45 Hz	50 μ V/V		
230	A	P		1 kHz	40 μ V/V		
231	A	P		5 kHz	50 μ V/V		
232	A	P		10 kHz	40 μ V/V		
233	A	P		15 kHz	45 μ V/V		
234	A	P		20 kHz	40 μ V/V		
235	A	P		33 kHz	60 μ V/V		
236	A	P		50 kHz	45 μ V/V		
237	A	P		100 kHz	70 μ V/V		
238	A	P		500 V 100 kHz	135 μ V/V		
239	A	P		700 V 50 kHz	165 μ V/V		
240	A	P		1000 V 45 Hz	35 μ V/V		
241	A	P		1 kHz	25 μ V/V		
242	A	P		5 kHz	35 μ V/V		
243	A	P		10 kHz	30 μ V/V		
244	A	P		15 kHz	50 μ V/V		
245	A	P		20 kHz	30 μ V/V		
246	A	P		30 kHz	35 μ V/V		

Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks			
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך					
247	A	P			[10 mV to 100 mV]	520 μV/V		Datron 4920			
248	A	P			[40 Hz to 200 kHz]			420 μV/V	Datron 4922		
249	A	P			(200 kHz to 500 kHz)			855 μV/V			
					(500 kHz to 1 MHz)						
250	A	P			(100 mV to 1 V]						
251	A	P			[40 Hz to 200 kHz]			105 μV/V			
252	A	P			(200 kHz to 500 kHz)			180 μV/V			
					(500 kHz to 1 MHz)			470 μV/V			
253	A	P			(1 V to 10 V]						
254	A	P			[40 Hz to 200 kHz]			100 μV/V			
255	A	P			(200 kHz to 500 KHz]			145 μV/V			
					(500 kHz to 1 MHz)			350 μV/V			
256	A	P			(10 V to 100 V]	170 μV/V					
					[40 Hz to 200 kHz]						
257	A	P			(100 V to 1000 V]	325 μV/V					
					[40 Hz to 30 kHz]						
258	A	P	AC Voltage. Measuring Instruments	מתח חילופין, מכשירי מדידה	100 mV				41 μV/V	Manufacturer instructions SOP 10700	Datron 4920
259	A	P			1 kHz						Datron 4922
260	A	P			30 kHz						77 μV/V
261	A	P			60 kHz	97 μV/V					
					100 kHz	97 μV/V					



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
262	A	P		300 mV 40 Hz	34 μ V/V		
263	A	P		1 kHz	35 μ V/V		
264	A	P		30 kHz	45 μ V/V		
265	A	P		50 kHz	73 μ V/V		
266	A	P		100 kHz	74 μ V/V		
267	A	P		200 kHz	135 μ V/V		
268	A	P		500 kHz	280 μ V/V		
269	A	P		700 kHz	720 μ V/V		
270	A	P		1MHz	720 μ V/V		
271	A	P		1 V 10 Hz	130 μ V/V		
272	A	P		40 Hz	30 μ V/V		
273	A	P		1kHz	29 μ V/V		
274	A	P		30 kHz	31 μ V/V		
275	A	P		50 kHz	67 μ V/V		
276	A	P		60 kHz	67 μ V/V		
277	A	P		100 kHz	68 μ V/V		
278	A	P		200 kHz	75 μ V/V		
279	A	P		500 kHz	279 μ V/V		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks	
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך			
280	A	P			700 kHz	720 μV/V			
281	A	P			1 MHz	720 μV/V			
282	A	P			50 MHz	20 mV/V			
283	A	P			3 V	10 Hz			130 μV/V
284	A	P			40 Hz	35 μV/V			
285	A	P			1 kHz	30 μV/V			
286	A	P			30 kHz	32 μV/V			
287	A	P			50 kHz	67 μV/V			
288	A	P			100 kHz	66 μV/V			
289	A	P			200 kHz	75 μV/V			
290	A	P			500 kHz	270 μV/V			
291	A	P			700 kHz	710 μV/V			
292	A	P			1 MHz	76 μV/V			
293	A	P			5 kHz	20 mV/V			
294	A	P			10 MHz	20 mV/V			
295	A	P			20 MHz	20 mV/V			
296	A	P	30 MHz	20 mV/V					
297	A	P	5 V	1 kHz	28 μV/V				



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישיר ותדר נמוך		
298	A	P		10 V 10 Hz	47 μ V/V		
299	A	P		40 Hz	30 μ V/V		
300	A	P		1 kHz	28 μ V/V		
301	A	P		30 kHz	29 μ V/V		
302	A	P		50 kHz	66 μ V/V		
303	A	P		60 kHz	66 μ V/V		
304	A	P		100 kHz	66 μ V/V		
305	A	P		200 kHz	73 μ V/V		
306	A	P		500 kHz	270 μ V/V		
307	A	P		700 kHz	710 μ V/V		
308	A	P		1 MHz	710 μ V/V		
309	A	P		20 V 500 kHz	270 μ V/V		
310	A	P		700 kHz	710 μ V/V		
311	A	P		1 MHz	710 μ V/V		
312	A	P		30 V 10 Hz	130 μ V/V		
313	A	P		40 Hz	38 μ V/V		
314	A	P		1 kHz	30 μ V/V		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
315	A	P			30 kHz	30 μV/V		
316	A	P			50 kHz	66 μV/V		
317	A	P			100 kHz	76 μV/V		
318	A	P			200 kHz	110 μV/V		
319	A	P			10 Hz	49 μV/V		
320	A	P			40 Hz	42 μV/V		
321	A	P			1 kHz	29 μV/V		
322	A	P			30 kHz	29 μV/V		
323	A	P			50 kHz	66 μV/V		
324	A	P			60 kHz	66 μV/V		
325	A	P			100 kHz	67 μV/V		
326	A	P			45 Hz	45 μV/V		
327	A	P			1 kHz	43 μV/V		
328	A	P			5 kHz	47 μV/V		
329	A	P			10 kHz	43 μV/V		
330	A	P			15 kHz	43 μV/V		
331	A	P			20 kHz	43 μV/V		
332	A	P			33 kHz	100 μV/V		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
333	A	P			50 kHz	130 μV/V		
334	A	P			100 kHz	160 μV/V		
					500 V			
335	A	P			100 kHz	160 μV/V		
					700 V			
336	A	P			50 kHz	160 μV/V		
					1000 V			
337	A	P			45 Hz	45 μV/V		
338	A	P			1 kHz	45 μV/V		
339	A	P			5 kHz	45 μV/V		
340	A	P			10 kHz	49 μV/V		
341	A	P			15 kHz	49 μV/V		
342	A	P			20 kHz	49 μV/V		
343	A	P			30 kHz	110 μV/V		
344	A	P			33 kHz	110 μV/V		
					[0.9 mV to 3.0 mV]			
345	A	P			(40 Hz to 200 kHz]	490 μV/V		
346	A	P			(200 kHz to 500 kHz]	1.4 mV/V		
347	A	P			(500 kHz to 1 MHz]	3.3 mV/V		
					(3.0 mV to 9 mV]			
348	A	P			[40 Hz to 200 kHz]	350 μV/V		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
349	A	P			(200 kHz to 500 kHz]	1.1 mV/V		
350	A	P			(500 kHz to 1 MHz]	2.6 mV/V		
					(9 mV to 30 mV]			
351	A	P			[40 Hz to 200 kHz]	220 μV/V		
352	A	P			(200 kHz to 500 kHz]	620 μV/V		
353	A	P			(500 kHz to 1 MHz]	1.6 mV/V		
					(30 mV to 350 mV]			
354	A	P			[40 Hz to 200 kHz]	150 μV/V		
355	A	P			(200 kHz to 500 kHz]	340 μV/V		
356	A	P			(500 kHz to 1 MHz]	860 μV/V		
					(350 mV to 35 V]			
357	A	P			[40 Hz to 200 kHz]	120 μV/V		
358	A	P			(200 kHz to 500 kHz]	330 μV/V		
359	A	P			(500 kHz to 1 MHz]	860 μV/V		
					[1 V to 3.5 V]			
360	A	P			[1 MHz to 30 MHz]	20 mV/V		
					(35 V to 120 V]			
361	A	P			[10 Hz to 100 kHz]	85 μV/V		
					(120 V to 500 V]			
362	A	P			[45 Hz to 100 kHz]	180 μV/V		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
363	A	P		(500 V to 700 V] [45 Hz to 50 kHz]	180 μ V/V		
364	A	P		(700 V to 1000 V] [45 Hz to 33 kHz] [1 mV to 2 mV]	130 μ V/V		
365	A	T		[40 Hz to 100 kHz]	9 mV/V		
366	A	T		(100 kHz to 300 kHz]	14 mV/V		
367	A	T		(300 kHz to 1 MHz]	43 mV/V		
368	A	T		(2 mV to 5 mV] [40Hz to 100 kHz]	9.6 μ V		
369	A	T		(100 kHz to 300 kHz]	18 μ V		
370	A	T		(300 kHz to 1 MHz]	69 μ V		
371	A	T		(5 mV to 10 mV] [40 Hz to 100 kHz]	14 μ V		
372	A	T		(100 kHz to 300 kHz]	22 μ V		
373	A	T		(300 kHz to 1 MHz]	14 mV/V		
374	A	T		(10 mV to 20 mV] [40 Hz to 100 kHz]	1.4 mV/V		
375	A	T		(100 kHz to 300 kHz]	2.2 mV/V		
376	A	T		(300 kHz to 1 MHz]	10 mV/V		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
377	A	T		(20 mV to 50 mV] [40 Hz to 100 kHz]	0.92 mV/V		
378	A	T		(100 kHz to 300 kHz]	2.5 mV/V		
379	A	T		(300 kHz to 1 MHz]	430 μ V		
380	A	T		(50 mV to 100 mV] [40 Hz to 100 kHz]	580 μ V/V		
381	A	T		(100 kHz to 300 kHz]	1.6 mV/V		
382	A	T		(300 kHz to 1 MHz]	8.5 mV/V		
383	A	T		(100 mV to 200 mV] [40 Hz to 100 kHz]	480 μ V/V		
384	A	T		(100 kHz to 300 kHz]	1.4mV/V		
385	A	T		(300 kHz to 1 MHz]	620 μ V/V		
386	A	T		(200 mV to 500 mV] [40 Hz to 100 kHz]	490 μ V/V		
387	A	T		(100 kHz to 300 kHz]	0.54 mV		
388	A	T		(300 kHz to 1 MHz]	7.9 mV/V		
389	A	T		(500 mV to 1 V] [40 Hz to 100 kHz]	3.9 mV/V		
390	A	T		(100 kHz to 300 kHz]	1.1mV/V		
391	A	T		(300 kHz to 1 MHz]	5.3mV/V		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישיר ותדר נמוך		
392	A	T		(1 V to 2 V] [40 Hz to 100 kHz]	360 μ V/V		
393	A	T		(100 kHz to 300 kHz]	900 μ V/V		
394	A	T		(300 kHz to 1 MHz]	4.5 mV/V		
395	A	T		(2 V to 5 V] [40 Hz to 100 kHz]	4.8 mV/V		
396	A	T		(100 kHz to 300 kHz]	1.7 mV/V		
397	A	T		(300 kHz to 1 MHz]	7.8 mV/V		
398	A	T		(5 V to 10 V] [40 Hz to 100 kHz]	0.38 mV/V		
399	A	T		(100 kHz to 300 kHz]	1 mV/V		
400	A	T		(300 kHz to 1 MHz]	5.2 mV/V		
401	A	T		(10 V to 20 V] [40 Hz to 100 kHz]	350 μ V/V		
402	A	T		(100 kHz to 300 kHz]	840 μ V/V		
403	A	T		(300 kHz to 1 MHz]	4.4 mV/V		
404	A	T		(20 V to 50 V] [40 Hz to 30 kHz]	330 μ V/V		
405	A	T		(30 kHz to 100 kHz]	920 μ V/V		
406	A	T		(50 V to 100 V] [40 Hz to 30 kHz]	210 μ V/V		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
407	A	T		(30 kHz to 100 kHz]	870 μ V/V		
408	A	T		(100 V to 200 V]			
409	A	T		[40 Hz to 30 kHz]	180 μ V/V		
410	A	T		(30 kHz to 100 kHz]	860 μ V/V		
411	A	T		(200 V to 500 V]			
412	A	P	AC Current Measuring Instruments	1 mA		Manufacturer instructions SOP 10574	AVMS Datron 4920, Shunt Adapter Datron 4921, Shunt adapter Rafael 4921R, Current Shunt A40, A40A, Datron Calibrator 4808, Datron 4600, Datron 9100, Current coils
413	A	P		300 Hz	240 μ A/A		
414	A	P		1 kHz	240 μ A/A		
415	A	P		5 kHz	240 μ A/A		
416	A	P		10 mA			
417	A	P		300 Hz	235 μ A/A		
418	A	P		1 kHz	235 μ A/A		
419	A	P		5 kHz	235 μ A/A		
420	A	P		100 mA			
421	A	P		300 Hz	235 μ A/A		
422	A	P		1 A			
423	A	P		300 Hz	245 μ A/A		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
422	A	P		1 kHz	245 μ A/A		
423	A	P		5 kHz	245 μ A/A		
424	A	P		10 A			
425	A	P		300 kHz	360 μ A/A		
426	A	P		1 kHz	360 μ A/A		
427	A	P		5 kHz	360 μ A/A		
428	A	P		[1 mA to 2 mA]			
429	A	P		[10 Hz to 1 kHz]	240 μ A/A		
430	A	P		(1 kHz to 5 kHz)	250 μ A/A		
431	A	P		(2 mA to 5 mA)			
432	A	P		[10 Hz to 1 kHz]	370 μ A/A		
433	A	P		(1 kHz to 5 kHz)	400 μ A/A		
434	A	P		(5 mA to 20 mA)			
435	A	P		[10 Hz to 1 kHz]	255 μ A/A		
436	A	P		(1 kHz to 5 kHz)	280 μ A/A		
437	A	P		(20 mA to 50 mA)			
438	A	P		[10 Hz to 1 kHz]	380 μ A/A		
439	A	P		(1 kHz to 5 kHz)	410 μ A/A		
440	A	P		(50 mA to 200 mA)			
441	A	P		[10 Hz to 1 kHz]	260 μ A/A		
442	A	P		(1 kHz to 5 kHz)	285 μ A/A		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
437	A	P		(200 mA to 500 mA) [10 Hz to 1 kHz]	490 μ A/A		
438	A	P		(1 kHz to 5 kHz)	660 μ A/A		
439	A	P		(500 mA to 2 A) [10 Hz to 1 kHz]	360 μ A/A		
440	A	P		(1 kHz to 5 kHz)	485 μ A/A		
441	A	P		(2 A to 11 A) [10 Hz to 1 kHz]	400 μ A/A		
442	A	P		(1 kHz to 5 kHz)	460 μ A/A		
443	A	P		(11 A to 20 A) [10 Hz to 3 kHz]	2.1 mA/A		
444	A	P		(3 kHz to 5 kHz)	6 mA/A		
445	A	P		(20 A to 200 A) [10 Hz to 100 Hz]	2.6 mA/A		
446	A	P		(100 Hz to 440 Hz)	8 mA/A		
447	A	P		(200 A to 1000 A) [10 to 100 Hz]	4 mA/A	Manufacturer instructions SOP 10700	Fluke 5730A Datron 4600 Datron 9100 Current coils
448	A	T		[1 mA to 2 mA] [10 Hz to 1 kHz]	620 μ A/A		
449	A	T		(1 kHz to 5 kHz)	720 μ A/A		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
450	A	T		(2 mA to 5 mA] [10 kHz to 1 kHz]	1.3 mA/A		
451	A	T		(1 kHz to 5 kHz]	1.4 mA/A		
452	A	T		(5 mA to 20 mA] [10 Hz to 1 kHz]	0.8 mA/A		
453	A	T		(1 kHz to 5 kHz]	0.9 mA/A		
454	A	T		(20 mA to 50 mA] [10 Hz to 1 kHz]	1.3 mA/A		
455	A	T		(1 kHz to 5 kHz]	1.4 mA/A		
456	A	T		(50 mA to 200 mA] [10 Hz to 1 kHz]	0.8 mA/A		
457	A	T		(1 kHz to 5 kHz]	0.9 mA/A		
458	A	T		(200 mA to 500 mA] [10 Hz to 1 kHz]	1.5 mA/A		
459	A	T		(1 kHz to 5 kHz]	1.7 mA/A		
460	A	T		(500 mA to 2 A] [10 Hz to 1 kHz]	0.96 mA/A		
461	A	T		(1 kHz to 5 kHz]	1.3 mA/A		
462	A	T		(2 A to 11 A] [10 Hz to 1 kHz]	0.86 mA/A		
463	A	T		(1 kHz to 5 kHz]	1.6 mA/A		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
464	A	T			(11 A to 20 A) [10 Hz to 3 kHz]	2.1 mA/A		
465	A	T			(3 kHz to 5 kHz]	6.0 mA/A		
466	A	T			(20 A to 200 A] [10 Hz to 100 kHz]	2.6 mA/A		
467	A	T			(100 Hz to 440 Hz]	8.0 mA/A		
468	A	T			(200 A to 1000 A] [10 Hz to 100 Hz]	4 mA/A		
469	A	P	AC Current Sources	זרם חילופין מחוללים	1 mA		Manufacturer instructions SOP 10570 SOP 10650	Alternating Voltage Measurement, Datron 4920, Shunt Adapter Datron 4921, Shunt Adapter Rafael 4921R, Current Shunt A40, A40A, Wavetek MTS 4950, Datron Calibrator 4808, Datron 4600, Datron 9100, Current Clamp, Current coils
		300 Hz			240 μA/A			
470	A	P			1 kHz	240 μA/A		
471	A	P			5 kHz	240 μA/A		
		10 mA						
472	A	P			300 Hz	240 μA/A		
473	A	P			1 kHz	240 μA/A		
474	A	P			5 kHz	240 μA/A		
		100 mA						
475	A	P			300 Hz	240 μA/A		
476	A	P	1 kHz	240 μA/A				
477	A	P			5 kHz	240 μA/A		
478	A	P			1 A			
					300 Hz	240 μA/A		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
479	A	P		1 kHz	240 μ A/A		
480	A	P		5 kHz	240 μ A/A		
				10 A			
481	A	P		300 Hz	350 μ A/A		
482	A	P		1 kHz	350 μ A/A		
483	A	P		5 kHz	350 μ A/A		
				[1 mA to 2 mA]			
484	A	P		[10 Hz to 49 Hz]	240 μ A/A		
485	A	P		[51 Hz to 1 kHz]	240 μ A/A		
486	A	P		(49 Hz to 51 Hz)	490 μ A/A		
				(2 mA to 5 mA)			
487	A	P		[10 Hz to 49 Hz]	380 μ A/A		
488	A	P		[51 Hz to 1 kHz]	400 μ A/A		
489	A	P		(49 Hz to 51 Hz)	510 μ A/A		
				(5 mA to 20 mA)			
490	A	P		[10 Hz to 49 Hz]	260 μ A/A		
491	A	P		[51 Hz to 1 kHz]	260 μ A/A		
492	A	P		(49 Hz to 51 Hz)	310 μ A/A		
				(20 mA to 50 mA)			
493	A	P		[10 Hz to 1 kHz]	420 μ A/A		
494	A	P		(1 kHz to 5 kHz]	425 μ A/A		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
495	A	P		(50 mA to 200 mA] [10 Hz to 1 kHz]	270 μ A/A		
496	A	P		(1 kHz to 5 kHz]	290 μ A/A		
497	A	P		(200 mA to 500 mA] [10 Hz to 1 kHz]	500 μ A/A		
498	A	P		(1 kHz to 5 kHz]	670 μ A/A		
499	A	P		(500 mA to 2 A] [10 Hz to 1 kHz]	370 μ A/A		
500	A	P		(1 kHz to 5 kHz]	490 μ A/A		
501	A	P		(2 A to 11 A] [10 Hz to 1 kHz]	400 μ A/A		
502	A	P		(1 kHz to 5 kHz]	460 μ A/A		
503	A	P		(11 A to 20 A] [10 Hz to 3 kHz]	2.1 mA/A		
504	A	P		(3 kHz to 5 kHz]	6.0 mA/A		
505	A	P		(20 A to 200 A] [10 Hz to 100 Hz]	2.6 mA/A		
506	A	P		(100 Hz to 440 Hz]	8.0 mA/A		
507	A	P		(200 A to 1000 A] [10 to 100 Hz]	4.0 mA/A		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
508	A	P	AC Resistance, Measuring Instruments התנגדות זרם חילופין, מכשירי מדידה	10 Ω	1.5 mΩ/Ω	Manufacturer instructions SOP 10980	HP AC Resistors
509	A	P		100 Ω			
510	A	P		1 kΩ	1.5 mΩ/Ω		
511	A	P		10 kΩ	2.3 mΩ/Ω		
512	A	P		100 kΩ	2.3 mΩ/Ω		
513	A	P		10 Ω	3.5 mΩ/Ω		
514	A	P		100 Ω	1.5 mΩ/Ω		
515	A	P		1 kΩ	1.5 mΩ/Ω		
516	A	P		10 kΩ	2.3 mΩ/Ω		
517	A	P		10 Ω	2.3 mΩ/Ω		
518	A	P		100 Ω	2.1 mΩ/Ω		
519	A	P		1 kΩ	3.5 mΩ/Ω		
520	A	P	AC Resistance, Resistors התנגדות זרם חילופין, מחוללים	10 Ω	1.5 mΩ/Ω	Manufacturer instructions SOP 10985	LCR HP AC Resistors
521	A	P		100 Ω			
				100 kHz	1.5 mΩ/Ω		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks	
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך			
522	A	P			1 kΩ				
					100 kHz	2.3 mΩ/Ω			
523	A	P			10 kΩ				
					100 kHz	2.3 mΩ/Ω			
524	A	P			100 kΩ				
					100 kHz	3.5 mΩ/Ω			
525	A	P	Capacitance, Measuring Instruments	קיבול, מכשירי מדידה	10 nF		Manufacturer instructions SOP 10980	HP Standard Capacitors GR standard Capacitors	
					120 Hz	0.4 mF/F			
526	A	P				1 kHz			0.4 mF/F
527	A	P				10 kHz			0.6 mF/F
528	A	P				100 kHz			1.6 mF/F
					100 nF				
529	A	P				120 Hz			0.4 mF/F
530	A	P				1 kHz			0.3 mF/F
531	A	P				10 kHz			1 mF/F
532	A	P				100 kHz			3 mF/F
					1 μF				
533	A	P				120 Hz			0.6 mF/F
534	A	P				1 kHz			0.3 mF/F
535	A	P				10 kHz			0.8 mF/F
					1 pF				
536	A	P				1 kHz			2 mF/F



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks							
Calibration – Electrical Quantities - DC and LF						כיוול – גדלים חשמליים - זרם ישר ותדר נמוך									
537	A	P			1 MHz	4 mF/F									
538	A	P			10 MHz	13 mF/F									
539	A	P			13 MHz	13 mF/F									
540	A	P			10 pF	1 kHz			0.3 mF/F						
	A	P				1 MHz			0.8 mF/F						
	A	P				10 MHz			2.5 mF/F						
	A	P				13 MHz			2.5 mF/F						
544	A	P			100 pF	1 kHz			0.6 mF/F						
	A	P				1 MHz			0.6 mF/F						
	A	P				10 MHz			2 mF/F						
	A	P				13 MHz			2 mF/F						
548	A	P			1000 pF	1 kHz			0.3 mF/F						
	A	P				1 MHz			0.5 mF/F						
	A	P				10 MHz			6 mF/F						
	A	P				13 MHz			6 mF/F						
552	A	P			Capacitance, Capacitors	קיבול, קבלים			10 nF	0.4 mF/F	Manufacturer instructions SOP 10985	LCR HP Standard Capacitors GR Capacitors			
553	A	P											120 Hz	0.4 mF/F	
554	A	P											1 kHz	0.6 mF/F	
555	A	P											10 kHz	1.6 mF/F	
556	A	P											100 nF	100 kHz	
														120 Hz	0.4 mF/F



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישיר ותדר נמוך		
557	A	P		1 kHz	0.3 mF/F		
558	A	P		10 kHz	1 mF/F		
559	A	P		100 kHz	3 mF/F		
560	A	P		1 μF			
561	A	P		120 Hz	0.6 mF/F		
562	A	P		1 kHz	0.3 mF/F		
563	A	P		10 kHz	0.8 mF/F		
564	A	P		1 pF			
565	A	P		1 kHz	2 mF/F		
566	A	P		10 pF			
567	A	P	Inductance, Measuring Instruments	1 kHz	0.3 mF/F	Manufacturer instructions SOP 10980	GR Inductors
568	A	P		100 μH			
569	A	P		1 kHz	0.7 mH/H		
570	A	P		1 mH			
571	A	P		1 kHz	0.3 mH/H		
572	A	P		10 mH			
573	A	P	השראות, מכשירי מדידה	1 kHz	0.4 mH/H		
574	A	P		100 mH			
575	A	P		1 H			
576	A	P		1 kHz	0.6 mH/H		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - DC and LF					כיוול – גדלים חשמליים - זרם ישר ותדר נמוך		
572	A	P		10 H 400 Hz	0.5 mH/H		
573	A	P	Inductance, Inductors	השראות, משרנים 100 μH 1 kHz	0.7 mH/H	Manufacturer instructions SOP 10985	LCR GR Tech Inductors
574	A	P		1 mH 1 kHz	0.3 mH/H		
575	A	P		10 mH 1 kHz	0.4mH/H		
576	A	P		100 mH 1 kHz	0.4 mH/H		
577	A	P		1 H 1 kHz	0.7 mH/H		
578	A	P		10 H 400 Hz	0.5 mH/H		
579	A	P	Frequency, Sources	תדר, מחוללים [100 kHz to 10 MHz]	130 μHz	Manufacturer instructions SOP 10907	GPS 910R COUNTER -53132A
580	A	P;T		[10 Hz to 80 MHz]	5 mHz	SOP 10650	Rubidium COUNTER -53132A
581	A	P	AC charge amplification. Charge amplifiers	הגברת מטען חשמלי. מגברי מטען 1 kHz Minimum input 10 pC RMS Maximum output 1 V RMS	0.2 %	Manufacturer instructions SOP 11300	Calibration of voltage output per charge input



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities - RF Frequency, Time						כיוול – גדלים חשמליים - תדר גבוה, זמן		
582	A	P;T	Frequency.	תדר,	(80 MHz to 1500 MHz]	2.3 mHz	Manufacturer instructions SOP 10924	SPECTRUM - PSA-E4448A , GPS 910R
583	A	P;T	Sources	מקורות	(1500 MHz to 6 GHz]	3.3 mHz		
584	A	P;T			(6 GHz to 50 GHz]	24 mHz		
585	A	P;T	Frequency.	תדר,	[1 Hz to 100 Hz]	0.012 μHz	Manufacturer instructions SOP 10910	GENERATOR -33600A , N5171B , GPS 910R
586	A	P;T	Measuring Instruments	מכשירי מדידה	(100 Hz to 10 kHz]	110 μHz		
587	A	P;T			(10 kHz to 30 MHz]	2.4 mHz		
588	A	P;T	DC Voltage into 1 MΩ	מדידת דיוק ציר אנכי במשקף תנודות בכניסה 1 MΩ	1 mV to 100 V	30 μV+0.32 mV/V OR	Manufacturer instructions SOP 10974	FLUKE 9500 & active heads OR - of reading
589	A	P,T	Bandwidth	מדידת רוחב פס של משקף תנודות	Up to 67 GHz	0.055 dB	SOP 10974	NRPT67T, PSG - E8257D
590	A	P;T	Input Resistance	מדידת התנגדות כניסה של משקף תנודות	50 Ω	0.03 mΩ/Ω	Manufacturer instructions SOP 10974	
591	A	P;T			1 MΩ	0.026 mΩ/Ω		
592	A	P;T	Rise Time,	מדידת זמן עליה	Input impedance 50 Ω	22 ps	Manufacturer instructions SOP 10974	Wavemaster 820ZI-B



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities – HF Electrical Power and Energy					כיוול – גדלים חשמליים - הספק ואנרגיה חשמלית בתדר גבוה		
593	A	P;T	Power, Sources	[50 MHz to 20 GHz]	40 mW/W	Manufacturer instructions SOP 10925	Reference Power Sensor Reference Power Meter (1mwatt)
594	A	P;T		(20 GHz to 40 GHz]	51 mW/W		
595	A	P;T		(40 GHz to 50 GHz]	65 mW/W		
596	A	P;T	Power, Power Sensors Cal Factor	[100 MHz to 10 GHz]	17 mW/W	Manufacturer instructions SOP 10945 Manufacturer instructions	Reference Power Sensor
597	A	P;T		(10 GHz to 20 GHz]	30 mW/W		
598	A	P;T		(20 GHz to 50 GHz]	45 mW/W		
599	A	P;T	Attenuation, Attenuators	[0.1 GHz to 1 GHz]		Manufacturer instructions SOP 10928	436A-E40 Microwave Power Sensor System HP 8350B Sweep Generator HP 436A Power Meter HP 8481A, 8484 Power References Sensors
600	A	P;T		[10 dB to 20 dB]	0.66 dB		
601	A	P;T		(20 dB to 30 dB]	0.09 dB		
602	A	P;T		30 dB to 60 dB]	0.12 dB		
603	A	P;T		[60 dB to 70 dB)	4.2 dB		
604	A	P;T		70 dB	3 dB		
605	A	P;T		(1 GHz to 18 GHz]			
606	A	P;T		[10 to 20 dB]	0.0064 dB		
607	A	P;T		(20 to 30 dB]	0.0066 dB		
608	A	P;T		(30 to 60 dB]	0.0096 dB		
				[60 dB to 70 dB)	0.2 dB		
				70 dB	0.93 dB		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Electrical Quantities – HF Electrical Power and Energy					כיוול – גדלים חשמליים - הספק ואנרגיה חשמלית בתדר גבוה		
609	A	P;T	Amplitude Modulation (AM), Depth of Signals אפנון משרעת, עומק אפנון	Carrier frequency: [sine 100 Hz to 50 GHz] Modulation frequency: [1 Hz to 250 kHz sine and square] Modulation depth: [5% to 95%] Ratio: Carrier/Rate [10 to 50·10 ⁹]	1 %	Manufacturer instructions SOP 10962	Agilent PSA spectrum Analyzer, model E4448A



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks	
Calibration – Mechanical Quantities – Accelerometers					כיוול – גדלים מכניים – מדי תאוצה			
610	A	P	Acceleration Piezoelectric type accelerometer	מד תאוצה פייזואלקטרי	[5 m/s ² to 100 m/s ²] [2 Hz to 100 Hz]	1.5 %	ISO 16063-21 SOP 10040	Endevco CAACS (Commercial Automated Accelerometer Calibration system)
611	A	P			(100 Hz – 2.5 kHz]	1.2 %		
612	A	P			(2.5 kHz to 10 kHz]	2.5 %		
613	A	P	Acceleration Piezoresistive type accelerometer	מד תאוצה פייזורזיסטיבי	[5 m/s ² to 100 m/s ²] [2 Hz to 100 Hz]	1.5 %	ISO 16063-21 SOP 10040	Endevco CAACS (Commercial Automated Accelerometer Calibration system)
614	A	P			(100 Hz – 2.5 kHz]	1.2 %		
615	A	P			(2.5 kHz to 10 kHz]	2.5 %		
616	A	P	Acceleration Piezoelectric type accelerometer	מד תאוצה	[200 m/s ² to 10 000 m/s ²]	1.9 %	ISO 16063-22 SOP 10040	Endevco Comparison Shock Calibrator Model 2925
617	A	P	Shock Calibration	כיוול הלם	(10 000 m/s ² to 100 000 m/s ²)	4.0 %		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities – CMM Measuring Machines						כיוול – גדלים מכניים – מכשירי מדידה תלת ממדיים		
618	A	P,T	Length, CMM Measuring Machine	אורך, מכונת מדידה תלת ממדיות	20 mm to 2000 mm	$[0.2 \mu\text{m} + 2 \cdot L] \mu\text{m}$	ISO 10360-2 ISO 10360-5 SOP 10025	L in meters Check Master Accurate Ball Gauge
619	A	P,T			125 mm to 1000 mm	$[0.16 \mu\text{m} + 1.2 \cdot L] \mu\text{m}$	ISO 10360-2 SOP 10025	Gauge Blocks



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities – Form, Angle					כיוול – גדלים מכניים – צורה, זווית		
620	A	P	Form, Flatness,	Up to 0.6 µm]	0.09 µm	A-A-58051	For optical flats with a diameter up to 100 mm
621	A	P	Optical Flats	(0.6 µm to 1.2 µm]	0.12 µm	JIS B 7430 Manufacturer instructions SOP 9150104	For surfaces with a diameter up to 100 mm
622	A	P,T	Form, Flatness, Surface Plates	Up to 2 mm	1 µm	DIN 876 JIS B 7513 ASME B89.3.7 ISO 8512-part 2 SOP 10032	Electronic Levels L in meters diagonal Granite, Cast Iron For surfaces up to 2000 mm in diagonal
623	A	P	Form, Straightness Straightedges	Up to 500 mm	3 µm	DIN 874 part 2 SOP 9150114	Surface plate, electronic gauge head
624	A	P	Form, Straightness, Knife edge	Up to 500 mm	0.8 µm	DIN 874 part 2 SOP 9150121	Surface plate, electronic gauge head, Square Block
625	A	P	Squares.	Up to 0.02 mm	1.5 µm	BS 939	Electronic head,
626	A	P	Squareness, straightness, flatness, Base parallelism	Up to 500 mm	4.4 µm	DIN 875 JIS B 7526 Manufacturer instructions SOP 9150113	Square master
627	A	P	Parallelism, Parallels, Steel and Granite	Up to 400 mm	1.4 µm	DIN 6346 GGG-P-61 BS 906 part 1 and 2 SOP 9150122	Surface plate, electronic head
628	A	P	Angle, Vee Blocks Squareness, Flatness and Parallelism	Up to 200 mm	1.4 µm	DIN 2274 BS 3731 SOP 9150117	Accurate cylinders, surface plate, electronic head, square master



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities – Form, Angle						כיוול – גדלים מכניים – צורה, זווית		
629	A	P	Parallelism of V-axis to the base	מקבילות ציר ה-V לבסיס	Up to 200 mm	2.2 µm		
630	A	P	Bevel Protractor	מד זווית	360°		BS 1685	Angular block gauges
			Angle	זווית,		1.1 '	A-A-3084	
631	A	P	Straightness, parallelism	ישרות, מקבילות		2.5 µm	SOP 9150114	
632	A	P	Angle, Rotary table	זווית, שולחן מסתובב	Up to 360°	0.5 "	Manufacturer instructions SOP 9150130	Autocollimator, polygon
633	A	P	Angle, Digital Levels	זווית, פלס אלקטרוני	Up to 360°	3.5 '	BS 958 Manufacturer instructions	Rotary table Indication 0.1°
634	A	P		פלס דיגיטלי		1.1 '	SOP 9150118	Indication 0.01°
635	A	P	Sine Bar	סרגל סינוס	0° - 45°	6.3 "	BS 3064	Gauge blocks, angle gauge blocks
636	A	P	Parallelism of roll axes	מקבילות בין צירי הגליל	Up to 200 mm	1.4 µm	SOP 9150119	
637	A	P	Flatness of working surface	שטיחות משטח עבודה	Up to 200 mm	1.4 µm		
638	A	P	Parallelism of working surface to reference plane	מקבילות בין משטחי עבודה למישור הייחוס	Up to 200 mm	1.4 µm		
639	A	P	Distance between roll axes	מרחק בין צירי הגלילים	Up to 200 mm	3.8 µm	SOP 9150119	
640	A	P	Inclinometer	מד שיפוע	45 °	3.1 "	Manufacturer instructions SOP 10027	Rotary table, DVM



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Hardness Meters					כיוול – גדלים מכניים - מדי קושיות		
641	A	T	Rockwell hardness scale, Rockwell hardness testing machines	קשיות רוקוול, מכונות לבדיקת קשיות רוקוול HRC [20 to 65]	0.4 HRC	ASTM E-18 SOP 10018	Indirect verification, i.e. Calibration by comparison to reference materials.
642	A	T		HRBW [40 to 100]	1.0 HRBW		
643	A	P	Shore hardness testing instruments - durometers. SHORE A	מכשירים למדידת קשיות בשיטת שור - דורמטרים. שור A [0 to 100] Shore A	0.5 SHORE A	ASTM D-2240 ISO 48-9 SOP 10028	Balance and device for durometer calibration CNC (MicroVu)
644	A	P	Indenter extension	אורך החודרן [2.46 to 2.54] mm	0.045 mm		
645	A	P	Indenter diameter	קטר החודרן [0.76 to 0.82] mm	0.002 mm		
646	A	P		[1.1 to 1.4] mm	0.002 mm		
647	A	P	Indenter angle	זווית החודרן [34.75° to 35.25°]	0.011 °		
648	A	P	Shore hardness testing instruments - durometers. SHORE D	מכשירים למדידת קשיות בשיטת שור - דורמטרים. שור D [10 to 100] Shore D	0.3 SHORE D	ASTM D-2240 ISO 48-9 SOP 10028	Balance and device for durometer calibration CNC (MicroVu)
649	A	P	Indenter extension	אורך החודרן [2.46 to 2.54] mm	0.045 mm		
650	A	P	Indenter diameter	קטר החודרן [1.1 to 1.4] mm	0.002 mm		
651	A	P	Indenter radius	רדיוס החודרן [0.088 to 0.112] mm	0.002 mm		
652	A	P	Indenter angle	זווית החודרן [29.5° to 30.5°]	0.011 °		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Length					כיוול – גדלים מכניים - אורך		
653	A	P	Length, Gauge Blocks (by Comparison)	אורך, מקבילונים [0.5 mm to 10 mm] [10 mm to 25 mm] [25 mm to 60 mm] [60 mm to 90 mm] [90 mm to 100 mm] [125 mm up to 1000 mm]	#A ##B 0.085 μm 0.15 μm 0.11 μm 0.18 μm 0.14 μm 0.22 μm 0.19 μm 0.27 μm 0.25 μm 0.34 μm 0.5 μm	SOP 9150112 Based on DIN 861 JIS B 7506 BS 4311 ISO 3650	Gauge Block Comparator # Class A uncertainties apply to the measurement of length of gauges by comparison with grade K standards of a similar material ## Class B uncertainties apply to the measurement of length of gauges by comparison with grade 0 standards of a similar material ULM 1500 for gauge blocks above 125 mm
654	A	P					
655	A	P					
656	A	P					
657	A	P					
658	A	P					
659	A	P	Length, Gauge Blocks Comparators	אורך, קומפרטור למקבילונים [0.5 mm to 100 mm]	0.05 μm	SOP 10053 Based on EURAMET/cg-02	Set of 6 pairs of gauge blocks including 6 mm bridge shaped gauge block Grade K gauge blocks
660	A	P	Length, Micrometer extension rod	אורך, מוטות הארכה למיקרומטר [25 mm to 600 mm] [25 mm to 1000 mm]	0.5 μm (1 μm + 1.2·L) μm	GGG-C-105-1987 DIN 861-1980 SOP 9150127	Gauge block, Measuring machines L in meters
661	A	P					
662	A	P	Diameter, Plain Ring Gauges, parallel	קוטר, מדידי טבעת חלקה [1.5 mm to 90 mm] [90 mm to 300 mm]	0.3 μm 0.4 μm	SOP 9150123 Based on ASME B89.1.6	Setting rings Measuring machines
663	A	P					
664	A	P	Diameter, Plain Plug Gauges	אורך, (קוטר) מדידי תקע חלק [0.7 mm to 25 mm] [25 mm to 200 mm]	1.0 μm 1.0 μm	SOP 10050 Based on MIL-STD-120 DIN 7164 ASME B1.1, ASME B1.2	Gauge Blocks Measuring machines
665	A	P					

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Accreditation No. 0010

Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Length					כיוול – גדלים מכניים - אורך		
666	A	P	Diameter, Measuring Pins	אורך (קוטר), מדידי קדח [0.7 mm to 25.4 mm]	0.8 µm	MIL-STD-120 DIN 2269 SOP 10050	Length measuring machines
667	A	P	Measuring Pins	מדידי קדח [1 mm to 25.4 mm]	0.5 µm		Laser measuring machine
668	A	P	Diameter, Pitch. Thread Measuring Wires,	קוטר, תיילים למדידת הברגה [0.1155 mm to 5.7735 mm]	0.3 µm	ASME B89.6 SOP 10048	Measuring machine
669	A	P	Diameter, Pitch. Thread Plug Gauges, Parallel	קוטר, מדידי הברגה זכר מקביל [0.8mm to 314 mm]	1.6 µm	ISO 228/1/2 ISO 1502 BS 84 BS 919/1/2/3 ASME B1.1, ASME B1.2 ASME B1.9 ISO 965/1 ISO 68/1 ISO 1580 1/2/3 SOP 9150124	Gauge Blocks Measuring machine Measuring pins
670	A	P	Diameter, Pitch Thread Ring gauges Parallel	קוטר אפקטיבי, מדידי הברגה טבעת, מקביל [5 mm to 314 mm]	1.8 µm	ISO 228/1/2 ISO 1502 BS 84 BS 919/1/2/3 ASME B1.1, ASME B1.2 ASME B1.9 ISO 965/1 ISO 68/1 ISO 1580 1/2/3 SOP 9150128	Functional Inspection (GO-NOT GO) in the range up to 25.4 mm may be provided Wear and setting plugs Measuring machine, setting rings

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Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Length						כיוול – גדלים מכניים - אורך		
671	A	P	Diameter, Internal Dial Bore Gauge, Built in	קוטר פנימי, מד קדח, חוגן מובנה, אינטרטסט	Up to 150 mm	8.4 μm	Manufacturer instructions JIS 7515 SOP 10014	Measuring machine Indicator Tester
672	A	P	Diameter, Internal, Dial bore gauge	קוטר פנימי, מד קדח גשר	[4 mm to 400 mm]	0.9 μm	Manufacturer instructions SOP 9150111	Electronic Gauge
673	A	P	Diameter, Internal, Dial bore gauge, Split Pin	קוטר פנימי, מד קדח פין מפציל	[0.5 mm up to 41.3 mm]	2.0 μm	SOP 9150110	Outside micrometer, gauge blocks
674	A	P	Length, Vernier, Dial and Digital Caliper	אורך, זחון וורניר, חוגן ודיגיטלי	Up to 2000 mm]	(10 μm + 5·L) μm	JIS B 7507 DIN 862 BS 887 SOP 9150105	Check master; length bars, gauge blocks L in meters
675	A	P;T	Length, Height Gauge	אורך, מד גובה	Up to 1000 mm]	3.5 μm	JIS B 7517 BS 1643 SOP 10051	Check master; length bars, gauge blocks, indicator tester. CMC values stand for instruments that have resolution of 0.0001 mm
676	A	P	Length, Micrometer External	אורך, מיקרומטר חיצוני	[Up to 400 mm]	(1.6 μm + 5.5·L) μm	JIS B 7502 JIS B 7520 DIN 863 part 1 BS 870 SOP 10052	Gauge blocks, micrometer setting rods L in meters
677	A	P			[400 mm to 1000 mm]	(3 μm + 1.1·L) μm		
678	A	P	Length, Micrometer Head	אורך, ראש מיקרומטרי	Up to 50 mm]	1.1 μm	JIS B 7504 BS 1734 DIN 863 part 2 SOP 10021	Gauge blocks, electronical gauge head L in meters
679	A	P	Length, Micrometer Depth	אורך, מיקרומטר עומק	Up to 300 mm]	(2 μm + 10·L) μm	JIS B 7504 DIN 863 part 2 BS 1734 SOP 9150106	Gauge Blocks L in meters



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Length					כיוול – גדלים מכניים - אורך		
680	A	P	Diameter, Internal קוטר פנימי, מיקרומטר פנימי 3 נקודות	Up to 90 mm]	1.6 µm	DIN 863 part 4 SOP 9150129	Plain ring gauges
681	A	P	Three point internal micrometer	(90 mm to 200 mm]	1.8 µm		
682	A	P	Length, Inside micrometer אורך מיקרומטר פנימי	Up to 75 mm]	1.3 µm	DIN 863 SOP 10023	Setting rings
683	A	P	Length, Dial Gauge, lever אורך, חוגן מנופי	Up to 0.8 mm]	0.8 µm	JIS B 7509 DIN 879 part 1 BS 907	Indication 0.001 mm
684	A	P		Up to 0.2 mm	1 µm	JIS B 7533 BS 2795	Indication 0.002 mm
685	A	P		(0.8 mm to 3 mm]	1 µm	JIS B 7503 DIN 878- DIN 2270 SOP 9150103	Indication 0.01 mm
686	A	P	Length, Dial indicator אורך, חוגן	Up to 0.05 mm	0.4 µm	JIS B 7509 DIN 879 part 1	Indication 0.005 mm
687	A	P		Up to 5 mm	0.42 µm	BS 907	Indication 0.001 mm
688	A	P		Up to 100 mm]	1 µm	JIS B 7533 BS 2795 DIN 2270	Indication 0.01 mm
689	A	P		(100 mm to 150 mm]	(0.85 µm + 5.5·L) µm	DIN 878 JIS B 7503 SOP 9150107	Indicator Tester L in meters
690	A	P	Length, Indicator Tester אורך, בודק חוגנים	Up to 25 mm	0.5 µm	Manufacturer instructions SOP 9150134	Indication 0.001 mm Gauge blocks
691	A	P	Length, LVDT אורך, מתמר אורך	Up to 50 mm	27 µm	Manufacturer instructions SOP 10022	Indicator Tester DVM



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Length					כיוול – גדלים מכניים - אורך		
692	A	P	Length Electronic probe אורך גשש אלקטרוני	Up to 60 mm	0.14 μm		Gauge blocks
693	A	P	Length, Height Gauge Micrometric אורך, מד גובה מיקרומטרי	Up to 300 mm	3 μm	Manufacturer instructions SOP 9150109	Gauge blocks, electrical gauge head
694	A	P	Length, Horizontal Measuring Machine אורך, מכונת מדידה	Up to 1000 mm	(0.1 μm + 0.4·L) μm	Manufacturer instructions SOP 10029	Indication 0.00001 mm Measuring machine range up to 1000 mm L in meter Measuring pins
695	A	P	Laser measuring machine מכונת מדידה לייזר	Up to 25.4 mm	0.22 μm		
696	A	P	Length, Sieves אורך, נפות אריג	Up to aperture of 4.75 mm	1.5 μm	ASTM – E11 ISO 3310-1 SOP 10054	MicroVu
697	A	P	Length, Feeler gauge אורך, מד מרווח	Up to 1 mm	0.5 μm	JIS B 7524 DIN 2275 SOP 10055	Certo
698	A	P	Coating thickness gauge, Thickness מד עובי ציפוי, עובי	(11 μm to 100 μm]	0.6 μm	SOP 10056	Foil
699	A	P		(100 μm to 1000 μm]	1.4 μm	ASTM D7091	
700	A	P		(1000 μm to 1500 μm]	3.5 μm		
701	A	P		(1500 μm to 13000 μm]	25 μm		
702	A	P		(13000 μm to 30000 μm]	125 μm		
703	A	P	Foil רדיד	Up to 100 μm	0.4 μm	SOP 10056	CT60 Electronic length gauge
704	A	P		(100 μm to 2000 μm]	2 μm		
705	A	P		(2000 μm to 13000 μm]	8.4 μm		
706	A	P		(13000 μm to 25000 μm]	40 μm		



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Mechanical Quantities - Length					כיוול – גדלים מכניים - אורך		
707	A	P, T	Torque arm	40"	0.035 mm	SOP 10058	CMM
708	A	P, T		10"	0.045 mm		
709	A	P, T		2.835"	0.035 mm		
710	A	T	Profile projector, Magnification	Up to 100 M	0.0092%	Manufacturer instructions JIS B 7184 SOP 10026	Glass scale M - Magnification Screen sizes up to 300 mm
711	A	T	Profile projector, Axis accuracy	Up to 300 mm	2 µm		Glass scale
712	A	T	Profile projector, Angle accuracy	1" to 90°	1.1 '		Angle block gauges
713	A	P,T	CNC, video measuring system, length measurement	Up to 300 mm	1 µm		Glass scale
714	A	P,T	CNC, video measuring system, angle measurement	Up to 90°	0.002°		Angle block gauges



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	CMC Expressed as an Expanded Uncertainty (95%)	Reference Documents	Remarks	
Calibration – Physical Quantities - Force, Torque					כיוול – גדלים פיזיקליים - כח, מומנט			
715	A	P	Force, Dynamometers	כוח, מדי כוח	[0.5 N to 1961 N]	0.008% OR + 0.05 N	SOP 9015031 Manufacturer instructions	Weights, only tension Resolution less than 0.5 N
716	A	P			(1961 N to 2451.7 N]	0.3% OR		Load cells, PCM Tension and compression
717	A	P	Force, Load cell	כוח, תא עומס	[0.5 N to 210 N]	0.2 % OR	ISO 7500-1	Weights, Compression only
718	A	P			(13 N to 10 kN]	0.35 % OR	SOP 90150318	Load cells,
719	A	P			(10 kN to 100 kN]	0.11 % OR		Tension&Compression
720	A	P			(100 kN to 450 kN]	0.2 % OR		OR-of reading
721	A	T	Force, Material Testing Machines	כוח, מכשכים	(50 N to 500 kN]	0.35 % OR	ISO 7500-1	Load cells
722	A	T	Presses		(500 kN to 5 MN]	0.5 % OR	Manufacturer instructions SOP 90150318	OR-of reading
723	A	P, P1	Torque, Torque Wrenches and drivers	מומנט, מפתחות מומנט	[0.056 N·m to 1100 N·m]	1 % O.R.	ISO 6789 SOP 10033	Torque Transducers
724	A	P	Torque, Torque tester Torque Transducer	מומנט, בודקי מומנט, מתמרי מומנט	[0.1 N·m to 10 N·m]	0.03 N·m	Good Practice Guide 107 Guide to the calibration and testing of torque transducers Manufacturer instructions SOP 90150320	Standard weights, arms and hangers



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Humidity					כיוול – גדלים פיזיקליים - לחות		
725	A	P	Relative Humidity	לחות יחסית (19 %rh to 24 %rh)	1.2 %rh	NPL-ISBN NO. 0-904457-24-9	Dew point mirror
726	A	P	Relative Humidity transducers,	מתמרי לחות יחסית [14.6 °C to 27 °C]	1.2 %rh	Manufacturer instructions SOP 10152	Humidity and temperature controller chamber
727	A	P	Relative Humidity probes,	רגשי לחות יחסית (24 %rh to 29 %rh)	1.2 %rh		
728	A	P	Relative Humidity data loggers,	אוגרי נתונים (14.6 °C to 22 °C)	1.2 %rh		
729	A	P	Relative Humidity meter	מדי לחות יחסית (29 %rh to 36 %rh)	1.2 %rh		
730	A	P		[14.6 °C to 19 °C]	0.8 %rh		
731	A	P		(19 % rh to 76 % rh)	0.8 %rh		
732	A	P		[27 °C to 40 °C]	0.8 %rh		
733	A	P		(24 % rh to 29 % rh)	0.8 %rh		
734	A	P		[22 °C to 27 °C]	0.8 %rh		
735	A	P		(29 % rh to 36 % rh)	0.8 %rh		
736	A	P		[19 °C to 27 °C]	1.2 %rh		
737	A	P		(36 % rh to 76 % rh)	1.2 %rh		
738	A	P		[14.6 °C to 27 °C]	1.2 %rh		
739	A	P		(76 % rh to 96 % rh)	1.2 %rh		
740	A	P		[25 °C to 40 °C]	1.2 %rh		
741	A	P		(24 %rh to 62 % rh)	1.2 %rh		
742	A	P		[40 °C to 51 °C]	1.2 %rh		
743	A	P	Temperature,	טמפרטורה (15 °C to 40 °C)	0.2 °C	Manufacturer instruction SOP 10152	PT 100 probe of Dew point mirror.
744	A	P	Relative Humidity/ Temperature Gauges	רגשי לחות /טמפרטורה (40 °C to 50 °C)	0.26 °C		Humidity and temperature controller chamber
745	A	T	Relative Humidity,	לחות יחסית, (25 %rh to 75 %rh)	1.5 %rh	Manufacturer instruction SOP 10152	Humidity/Temperature Sensor
746	A	T	Humidity Chambers,	בקרים לתאי סביבה [15 °C to 35 °C]	1.5 %rh		
747	A	T	Humidity Controller Climatic chambers	תאים אקלימיים [75 %rh to 96 %rh]	1.5 %rh		
748	A	T		[25 °C to 35 °C]	1.5 %rh		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Humidity						כיוול – גדלים פיזיקליים - לחות		
738	A	T			[25 %rh to 61 %rh] [40 °C to 50 °C]	1.5 %rh		Humidity and temperature controller chamber
739	A	T			(75 %rh to 93 %rh) [40 °C to 50 °C]	1.5 %rh		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Liquid and Air Flow						כיוול – גדלים פיזיקליים – זרימה, נוזל ואוויר		
740	A	P	Flowrate Gas flowmeters	ספיקה מדי ספיקה גזיים	[0.005 L/min to 50 L/min]	0.4 %	Manufacturer instructions SOP 10007	Primary standard - Cal - Trak SL800 (*) Calibration gas is N ₂ . Volume flow rate may be presented in mass flow rate units at STP conditions, e.g. in SLPM Max pressure for calibration at P - 4.5 bar.
741	A	P1;T1			(0.1 L/min to 200 L/min]	1.1 %	Manufacturer instructions SOP 10047	MFC – mass flow controller Max pressure for calibration at P1 - 413 bar.



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Mass						כיוול – גדלים פיזיקליים - מסה		
742	A	P;T	Mass	מסה, מאזניים לא אוטומטיים	[1 mg to 50 g]	0.025 mg	Euramet cg 18 Manufacturer instructions SOP 90150319	The uncertainty quoted will depend on the performance of the weighing instrument under calibration and will depend on the calibration uncertainty of weights used. Available weights are: OIML Class E2 from 0.001 g to 5 kg OIML Class F1 from 0.001 g to 10 kg Weights 7 x 10 kg OIML Class F2, Weight 4 x 20 kg OIML Class M1, Weights 20 x 10 kg Test weight 50 kg Test weights 3 x 100 kg OIML class F1, Weights 5 x 500 kg Weight 1000 kg
743	A	P;T	Non-automatic weighing instruments	כוסר הפרדה 0.01 mg	(50 g to 100 g]	0.08 mg		
744	A	P;T	Resolution 0.01 mg		(100 g to 220 g]	0.18 mg		
745	A	P;T	Mass	מסה, מאזניים לא אוטומטיים	(Up to 100 g]	0.12 mg		
746	A	P;T	Non-automatic weighing instruments	כוסר הפרדה 0.1 mg	(100 g to 220 g]	0.24 mg		
747	A	P;T	Resolution 0.1 mg		(220 g to 520 g]	0.30 mg		
748	A	P;T	Mass	מסה, מאזניים לא אוטומטיים	(Up to 4.1 kg]	0.002 g		
749	A	P;T	Non-automatic weighing instruments	כוסר הפרדה 0.001 g	(Up to 8.1 kg]	0.014 g		
750	A	P;T	Resolution 0.01 g		(8.1 kg to 12.1 kg]	0.017 g		
751	A	P;T	Mass	מסה, מאזניים לא אוטומטיים	Up to 32.1 kg]	0.12 g		
752	A	P;T	Non-automatic weighing instruments	כוסר הפרדה 0.1 g	(32.1 kg to 60 kg]	0.2 g		
753	A	T	Mass	מסה, מאזניים לא אוטומטיים	(Up to 150 kg]	1 g		
			Non-automatic weighing instruments	כוסר הפרדה 1 g				
754	A	T	Mass	מסה, מאזניים לא אוטומטיים	(Up to 500 kg]	20 g		
			Non-automatic weighing instruments	כוסר הפרדה 0.01 kg				
755	A	T	Mass	מסה, מאזניים לא אוטומטיים	(Up to 2700 kg]	200 g		
			Non-automatic weighing instruments	כוסר הפרדה 0.2 kg				
			Resolution 0.2 kg					



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Mass					כיוול – גדלים פיזיקליים - מסה		
756	A	T	Mass Non-automatic weighing instruments Resolution 0.5 kg	מסה, מאזניים לא אוטומטיים כושר הפקדה 0.5 kg	(Up to 2700 kg]	500 g	



Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Pressure					כיוול – גדלים פיזיקליים - לחץ		
757	A	P	Pneumatic pressure Absolute.	(10 kPa to 3.6 MPa]	275 Pa	Euramet cg 17	DPC Druck, Pace 6000
758	A	P	Pressure indicating instruments and gauges	(3.6 MPa to 7.1 MPa]	1.75 kPa	ASTM B40.100	PPC DHI model PPCH-G-70M
759	A	P1		(0.1 MPa to 7.1 MPa]	4.2 kPa	BS EN 837	
760	A	P, P1		(7.1 MPa to 70 MPa]	7.25 kPa	Manufacturer instructions SOP 90150314	
761	A	P	Pneumatic pressure Gauge	[-90 Pa to 3.5 MPa]	300 Pa	Euramet cg 17	DPC Druck, Pace 6000
762	A	P	Pressure indicating instruments and gauges	(3.5 MPa to 7 MPa]	1.8 kPa	ASTM B40.100	PPC DHI model PPCH-G-70M
763	A	P1		[0 MPa to 7 MPa]	4.2 kPa	BS EN 837	
764	A	P, P1		(7 MPa to 70 MPa]	7.2 kPa	Manufacturer instructions SOP 90150314	
765	A	P	Hydraulic pressure, Gauge.	(16.2 MPa to 41.37 MPa]	7.5 kPa	EURAMET cg3	Comparison vs.
766	A	P	Pressure indicating instruments and gauges	(41.37 MPa to 206.89 MPa]	24 kPa	ASME B40.100	DWT AREMECA
767	A	P		(206.89 MPa to 413.5 MPa]	50 kPa	EURAMET cg17	BH4 - 4000B
						BS EN 837	
						Manufacturer instruction SOP 10006	
768	A	P	Hydraulic pressure, Gauge.	(0 MPa to 7 MPa]	15 kPa	SOP 90150314	Druck IDOS UPM
769	A	P	Pressure indicating instruments and gauges	(7 MPa to 70 MPa]	20 kPa		Sensotech Pressure pump



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Temperature						כיוול – גדלים פיזיקליים - טמפרטורה		
770	A	P	Temperature.	טמפרטורה	[-80 °C to -40 °C]	0.06 °C	IEC 60751	SPRT, PRT
771	A	P	Thermometers sensors with display with resistance sensors	מדי חום עם תצוגה עם רגש התנגדות	[-40 °C to 100 °C]	0.04 °C	ITS-90	Isotech milliK
772	A	P			0.01 °C (Triple point of water)	0.04 °C	SOP 9015039	Isotech microK, TWP,
773	A	P			(100 °C to 200 °C]	0.05 °C		Calibration baths,
774	A	P			(200 °C to 600 °C]	0.45 °C		Thermocouple calibration furnace
775	A	P			(600 °C to 1000 °C]	1.0 °C		
776	A	P	Temperature.	טמפרטורה	(-80 °C to 200 °C]	0.4 °C	ASTM-E-230	PRT, TC type S, Calibration baths, Thermocouple calibration furnace
777	A	P	Thermocouples noble metal	צמידים תרמיים, מתכות אצילות	(200 °C to 600 °C]	0.6 °C	Euramet cg8	
778	A	P			(600 °C to 1000 °C]	1.0 °C	ITS-90 Manufacturer instructions SOP 9015038	
779	A	P	Temperature.	טמפרטורה	(-80 °C to 200 °C]	0.4 °C	ASTM-E-230	PRT, TC type S, Calibration baths, Thermocouple calibration furnace
780	A	P	Thermocouples base metal	צמידים תרמיים מתכות בסיסיות	(200 °C to 600 °C]	0.6 °C	Euramet cg8	
781	A	P			(600 °C to 1000 °C]	1.0 °C	ITS-90 SOP 9015038	
782	A	T	Temperature,	טמפרטורה	[-25 °C to 140 °C]	0.4 °C	IEC 60751	PRT with Display
783	A	T	Thermometers sensors with display	מדי חום עם תצוגה	(140 °C to 600 °C]	0.5 °C	ITS-90 Manufacturer instructions SOP 9015039	Dry blocks calibrators
784	A	P	Temperature,	טמפרטורה,	[-200 °C to 850 °C]	0.01 °C	EURAMET cg-11	Calibration by means of electrical calibration,
785	A	T	Temperature indicators and simulators for Resistance sensors	מדי ומדמי טמפרטורה עבור מדי התנגדות	[-200 °C to 850 °C]	0.1 °C	IEC 60751 SOP 10752 SOP 10756 SOP 10650 SOP 10700	



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks	
Calibration – Physical Quantities - Temperature						כיוול – גדלים פיזיקליים - טמפרטורה			
786	A	P	Temperature, Temperature indicators and simulators for Base metal thermocouples type K	טמפרטורה, מדי ומדמי טמפרטורה עבור צמדים תרמיים מסוג K	[-200 °C to 1370 °C]	0.2 °C	EURAMET cg-11 SOP 10754	Calibration by means of electrical calibration, cold junction compensation on	
787	A	T			[-200 °C to 1370 °C]	0.4 °C	SOP 10650, SOP 10700	cold junction compensation off	
788	A	P	Temperature, Temperature indicators and simulators for Base metal thermocouples type J	טמפרטורה, מדי ומדמי טמפרטורה עבור צמדים תרמיים מסוג J	[-200 °C to 1200 °C]	0.2 °C	EURAMET cg-11 SOP 10754	Calibration by means of electrical calibration, cold junction compensation on	
789	A	T			[-200 °C to 1200 °C]	0.4 °C	SOP 10650, SOP 10700	cold junction compensation off	
790	A	P	Temperature, Temperature indicators and simulators for Base metal thermocouples type T	טמפרטורה, מדי ומדמי טמפרטורה עבור צמדים תרמיים מסוג T	[-200 °C to 400 °C]	0.2 °C	EURAMET cg-11 SOP 10754	Calibration by means of electrical calibration, cold junction compensation on	
791	A	T			[-200 °C to 400 °C]	0.4 °C	SOP 10650 SOP 10700	cold junction compensation off	
792	A	P	Temperature, Temperature indicators and simulators for Base metal thermocouples type E	טמפרטורה, מדי ומדמי טמפרטורה עבור צמדים תרמיים מסוג E	[-200 °C to 1000 °C]	0.2 °C	EURAMET cg-11 SOP 10754	Calibration by means of electrical calibration, cold junction compensation on	
793	A	T			[-200 °C to 1000 °C]	0.4 °C	SOP 10650 SOP 10700	cold junction compensation off	
794	A	P	Temperature, Temperature indicators and simulators for Noble metal thermocouples type R,S	טמפרטורה, מדי ומדמי טמפרטורה עבור צמדים תרמיים מסוג S,R	[-20 °C to 1760 °C]	0.2 °C	EURAMET cg-11 SOP 10754	Calibration by means of electrical calibration, cold junction compensation on	
795	A	T		Measure	מודד	[-20 °C to 1760 °C]	0.7 °C	SOP 10650	cold junction compensation off
796	A	T		Source	מקור	[-20 °C to 1760 °C]	0.4 °C	SOP 10700	
797	A	P,T	Temperature, Furnaces	טמפרטורה, תנורים	[-80 °C to 200 °C]	0.55 °C	MIL-STD-810-G	Thermocouples	
798	A	P,T	Furnaces Controller	בקרים לתנורים	(-200 °C to 535 °C]	1 °C	AMS 2750E		



Item	Scope Type	Site	Measurand Instrument, Gauge		Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities - Temperature						כיוול – גדלים פיזיקליים - טמפרטורה		
799	A	P,T			(535 °C to 1000 °C]	1.6 °C	IEC 60068-3-5 SOP 9015037	
800	A	P,T	Temperature, Furnaces	טמפרטורה, תנורים	[-80 °C to 200 °C]	0.7 °C	MIL-STD-810-G	Thermocouples
801	A	P,T	Furnaces Controller Including Uniformity	בקרת תנורים כולל אחידות	(200 °C to 535 °C]	1.2 °C	AMS 2750E IEC 60068-3-5	
802	A	P,T			(535 °C to 1000 °C]	2.2 °C	SOP 9015037	

¹) The uncertainty covered by the CMC expressed as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95 %.