

## SERTIFIKAT KALIBRASI CALIBRATION CERTIFICATE

### Identitas Alat

#### *Instrument's Details*

**Nomor Identifikasi** : SAL001  
*Identification Number*  
**Nama** : Digital Multimeter  
*Name*  
**Pabrik** : GW Instek  
*Manufacturer*  
**Tipe / Nomor Seri** : GDM-8261A / GEN190885  
*Type / Serial Number/ID*

**Nomor SO** : -  
*SO number*  
**Nomor Sertifikat** : 10/14/0-1200/143  
*Certificate number*

### Identitas Pemilik

#### *Owner Details*

**Nama** : PT. SENTRAL TEHNOLOGI MANAJEMEN  
*Name*  
**Alamat** : Cikarang Square Blok B, Jalan Raya Cikarang Cibarusah No.11, Sukaresmi,  
*Address* Cikarang Selatan, Pasirsari, Cikarang Sel., Bekasi, Jawa Barat 17530

Cikarang, 30 September 2020

Disetujui oleh

Approved by



**SENTRAL SISTEM  
CALIBRATION**

PT. Sentral Teknologi Manajemen

**Rudi Eko Suryono**  
Manajemen Teknis

Laboratorium : Cikarang Square Blok B No 11, Jl. Raya Cibarusah Cikarang Selatan - Jawa Barat 17530 | Telp : (021) 89321323 - 4 | Fax : 29067204

<b>Tanggal Terima</b> Date of acceptance	: 25 September 2020	<b>Nomor SO</b> SO number	: -
<b>Tanggal Kalibrasi</b> Calibration date	: 25 September 2020	<b>Nomor Sertifikat</b> Certificate number	: 10/140-1200/143
<b>Tempat Kalibrasi</b> Calibration place	: PT. SENTRAL TEHNOLOGI MANAGEMEN		
<b>Kondisi Lingkungan</b> Environment condition	: <b>Suhu</b> Temperature : ( 24.4 ± 0.6 ) °C	<b>Kelembaban</b> Humidity	: ( 60 ± 1 ) % rh

**HASIL KALIBRASI**  
 Result of Calibration

Parameter : DC Voltage

Range	Standard Nominal	Inst. Reading	Correction	Uncertainty	k
100 mV	0.0000 mV	-0.0007 mV	0.0007 mV	0.0053 mV	2.0
	10.0000 mV	9.9998 mV	0.0002 mV	0.0053 mV	2.0
	20.0000 mV	20.0010 mV	-0.0010 mV	0.0053 mV	2.0
	50.0000 mV	50.0043 mV	-0.0043 mV	0.0053 mV	2.0
	80.0000 mV	80.0079 mV	-0.0079 mV	0.0059 mV	2.0
	90.0000 mV	90.0089 mV	-0.0089 mV	0.0062 mV	2.0
	-10.0000 mV	-10.0020 mV	0.0020 mV	0.0053 mV	2.0
	-50.0000 mV	-50.0084 mV	0.0084 mV	0.0053 mV	2.0
	-90.0000 mV	-90.0141 mV	0.0141 mV	0.0062 mV	2.0
1 V	0.100000 V	0.099995 V	0.000005 V	0.000007 V	2.0
	0.900000 V	0.899959 V	0.000041 V	0.000032 V	2.0
	-0.900000 V	-0.899969 V	-0.000031 V	0.000032 V	2.0
10 V	1.000000 V	0.99999 V	0.00001 V	0.00004 V	2.0
	3.00000 V	2.99997 V	0.00003 V	0.00015 V	2.0
	5.00000 V	4.99997 V	0.00003 V	0.00020 V	2.0
	7.00000 V	6.99994 V	0.00006 V	0.00026 V	2.0
	9.00000 V	8.99994 V	0.00006 V	0.00032 V	2.0
	-1.000000 V	-0.99998 V	-0.00002 V	0.00004 V	2.0
	-5.00000 V	-5.00003 V	0.00003 V	0.00020 V	2.0
	-9.00000 V	-8.99999 V	-0.00001 V	0.00032 V	2.0
100 V	10.00000 V	9.9996 V	0.0004 V	0.0004 V	2.0
	90.0000 V	89.9969 V	0.0031 V	0.0032 V	2.0
	-90.0000 V	-89.9976 V	-0.0024 V	0.0033 V	2.0
1000 V	100.0000 V	99.991 V	0.009 V	0.004 V	2.0
	200.0000 V	199.981 V	0.019 V	0.007 V	2.0
	500.000 V	499.959 V	0.041 V	0.020 V	2.0
	800.000 V	799.954 V	0.046 V	0.029 V	2.0
	1000.000 V	999.952 V	0.048 V	0.035 V	2.0
	-100.0000 V	-99.989 V	-0.011 V	0.004 V	2.0
	-500.000 V	-499.973 V	-0.027 V	0.021 V	2.0
	-1000.000 V	-999.960 V	-0.040 V	0.035 V	2.0



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**Tanggal Terima** : 25 September 2020

*Date of acceptance*

**Nomor S0** : -

*S0 number*

**Tanggal Kalibrasi** : 25 September 2020

*Calibration date*

**Nomor Sertifikat** : 10/140-1200/143

*Certificate number*

**Tempat Kalibrasi** : PT. SENTRAL TEHNOLOGI MANAGEMEN

*Calibration place*

**Kondisi Lingkungan** : Suhu : ( 24.4 ± 0.6 ) °C

*Environment condition*

*Temperature*

**Kelembaban** : ( 60 ± 1 ) % rh

*Humidity*

**HASIL KALIBRASI**

*Result of Calibration*

**Parameter :** DC Current

Range	Standard Nominal	Inst. Reading	Correction	Uncertainty	k
100 µA	0.0000 µA	0.002 µA	-0.002 µA	0.049 µA	2.0
	10.0000 µA	10.002 µA	-0.002 µA	0.049 µA	2.0
	20.0000 µA	20.002 µA	-0.002 µA	0.049 µA	2.0
	50.0000 µA	50.009 µA	-0.009 µA	0.049 µA	2.0
	80.0000 µA	80.016 µA	-0.016 µA	0.049 µA	2.0
	90.0000 µA	90.020 µA	-0.020 µA	0.049 µA	2.0
	-10.0000 µA	-10.002 µA	0.002 µA	0.049 µA	2.0
	-50.0000 µA	-50.008 µA	0.008 µA	0.049 µA	2.0
	-90.0000 µA	-90.019 µA	0.019 µA	0.049 µA	2.0
1 mA	0.100000 mA	0.100018 mA	-0.000018 mA	0.000049 mA	2.0
	0.900000 mA	0.90019 mA	-0.00019 mA	0.00012 mA	2.0
10 mA	1.000000 mA	1.00054 mA	-0.00054 mA	0.00013 mA	2.0
	9.00000 mA	9.00442 mA	-0.00442 mA	0.00075 mA	2.0
100 mA	10.00000 mA	10.0034 mA	-0.0034 mA	0.0008 mA	2.0
	90.0000 mA	90.032 mA	-0.032 mA	0.015 mA	2.0
	-90.0000 mA	-90.028 mA	0.028 mA	0.015 mA	2.0
1 A	0.100000 A	0.100026 A	-0.000026 A	0.000015 A	2.0
	0.900000 A	0.90029 A	-0.00029 A	0.00012 A	2.0
10 A	1.000000 A	1.00042 A	-0.00041 A	0.00021 A	2.0
	2.000000 A	2.00090 A	-0.00090 A	0.00024 A	2.0
	5.00000 A	5.0015 A	-0.0015 A	0.0021 A	2.0
	8.00000 A	8.0018 A	-0.0018 A	0.0032 A	2.0
	9.00000 A	9.0019 A	-0.0019 A	0.0035 A	2.0
	10.00000 A	10.0019 A	-0.0019 A	0.0069 A	2.0
	-1.000000 A	-1.00051 A	0.00051 A	0.00021 A	2.0
	-5.00000 A	-5.0015 A	0.0015 A	0.0021 A	2.0

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<b>Tempat Kalibrasi</b> Calibration place	: PT. SENTRAL TEKNOLOGI MANAGEMEN		
<b>Kondisi Lingkungan</b> Environment condition	: Suhu : ( 24.4 ± 0.6 ) °C Temperature	<b>Kelembaban</b> Humidity	: ( 60 ± 1 ) % rh

**HASIL KALIBRASI**  
 Result of Calibration

Parameter : AC Voltage

Range	Freq	Standard Nominal	Inst. Reading	Correction	Uncertainty	k
100 mV	50 Hz	0.000 mV	0.170 mV	-0.170 mV	0.051 mV	2.0
	50 Hz	10.000 mV	10.006 mV	-0.006 mV	0.054 mV	2.0
	50 Hz	20.000 mV	20.020 mV	-0.020 mV	0.081 mV	2.0
	50 Hz	50.000 mV	50.014 mV	-0.014 mV	0.081 mV	2.0
	50 Hz	80.000 mV	80.028 mV	-0.028 mV	0.081 mV	2.0
	50 Hz	90.000 mV	90.049 mV	-0.049 mV	0.081 mV	2.0
	1 k Hz	10.000 mV	10.007 mV	-0.007 mV	0.066 mV	2.0
	1 k Hz	50.000 mV	50.024 mV	-0.024 mV	0.091 mV	2.0
	1 k Hz	90.000 mV	90.04 mV	-0.04 mV	0.12 mV	2.0
	10 k Hz	90.000 mV	90.03 mV	-0.03 mV	0.12 mV	2.0
1 V	50 Hz	0.90000 V	0.90022 V	-0.00022 V	0.00047 V	2.0
	1 k Hz	0.90000 V	0.90028 V	-0.00028 V	0.00081 V	2.0
	10 k Hz	0.90000 V	0.90022 V	-0.00022 V	0.00081 V	2.0
10 V	50 Hz	1.00000 V	1.00000 V	0.00000 V	0.00050 V	2.0
	50 Hz	2.00000 V	1.99903 V	0.00097 V	0.00082 V	2.0
	50 Hz	5.0000 V	4.9987 V	0.0013 V	0.0035 V	2.0
	50 Hz	8.0000 V	7.9981 V	0.0019 V	0.0043 V	2.0
	50 Hz	9.0000 V	8.9979 V	0.0021 V	0.0046 V	2.0
	1 k Hz	1.00000 V	1.00009 V	-0.00009 V	0.00087 V	2.0
	1 k Hz	5.0000 V	4.9993 V	0.0007 V	0.0050 V	2.0
	1 k Hz	9.0000 V	8.9990 V	0.0010 V	0.0071 V	2.0
	10 k Hz	9.0000 V	8.9977 V	0.0023 V	0.0071 V	2.0
100 V	50 Hz	90.000 V	89.995 V	0.005 V	0.046 V	2.0
	1 k Hz	90.000 V	90.00 V	0.00 V	0.12 V	2.0
	10 k Hz	90.000 V	90.02 V	-0.02 V	0.12 V	2.0
750 V	50 Hz	75.000 V	75.011 V	-0.011 V	0.045 V	2.0
	50 Hz	150.000 V	149.965 V	0.035 V	0.065 V	2.0
	50 Hz	375.00 V	374.86 V	0.14 V	0.30 V	2.0
	50 Hz	600.00 V	599.84 V	0.16 V	0.33 V	2.0
	50 Hz	675.00 V	674.88 V	0.12 V	0.35 V	2.0
	50 Hz	750.00 V	749.90 V	0.10 V	0.40 V	2.0
	1 k Hz	75.000 V	75.02 V	-0.02 V	0.11 V	2.0
	1 k Hz	375.00 V	374.90 V	0.10 V	0.98 V	2.0
	1 k Hz	750.00 V	750.0 V	0.0 V	1.5 V	2.0
	10 k Hz	750.00 V	750.3 V	-0.3 V	1.5 V	2.0



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<b>Tempat Kalibrasi</b> Calibration place	: PT. SENTRAL TEKNOLOGI MANAGEMEN		
<b>Kondisi Lingkungan</b> Environment condition	: <b>Suhu</b> : ( 24.4 ± 0.6 ) °C Temperature	<b>Kelembaban</b> Humidity	: ( 60 ± 1 ) % rh

**HASIL KALIBRASI**  
 Result of Calibration

Parameter : AC Current

Range	Freq	Standard Nominal	Inst. Reading	Correction	Uncertainty	k	
1 mA	50 Hz	0.000000 mA	0.00000 mA	0.00000 mA	0.00029 mA	2.0	#
	50 Hz	0.100000 mA	0.10002 mA	-0.00002 mA	0.00048 mA	2.0	
	50 Hz	0.900000 mA	0.9003 mA	-0.0003 mA	0.0023 mA	2.0	
	1k Hz	0.900000 mA	0.9003 mA	-0.0003 mA	0.0069 mA	2.0	
	5 k Hz	0.900000 mA	0.9004 mA	-0.0004 mA	0.0071 mA	2.0	
10 mA	50 Hz	9.0000 mA	9.004 mA	-0.004 mA	0.019 mA	2.0	
	1 k Hz	9.0000 mA	9.006 mA	-0.006 mA	0.019 mA	2.0	
	5 k Hz	9.0000 mA	9.004 mA	-0.004 mA	0.019 mA	2.0	
100 mA	50 Hz	90.000 mA	90.04 mA	-0.04 mA	0.18 mA	2.0	
	1 k Hz	90.000 mA	90.04 mA	-0.04 mA	0.18 mA	2.0	
	5 k Hz	90.000 mA	90.04 mA	-0.04 mA	0.18 mA	2.0	
1 A	50 Hz	0.90000 A	0.9002 A	-0.0002 A	0.0020 A	2.0	
	1 k Hz	0.90000 A	0.9005 A	-0.0005 A	0.0020 A	2.0	
	5 k Hz	0.90000 A	0.9001 A	-0.0001 A	0.0020 A	2.0	
10 A	50 Hz	1.00000 A	1.0000 A	0.0000 A	0.0020 A	2.0	
	50 Hz	9.0000 A	9.0006 A	-0.0006 A	0.0074 A	2.0	
	50 Hz	10.0000 A	10.0007 A	-0.0007 A	0.0074 A	2.0	
	1 k Hz	10.0000 A	9.99964 A	0.00036 A	0.000000 A	2.0	#

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<b>Tempat Kalibrasi</b> Calibration place	: PT. SENTRAL TEKNOLOGI MANAGEMEN		
<b>Kondisi Lingkungan</b> Environment condition	: Suhu : ( 24.4 ± 0.6 ) °C Temperature	<b>Kelembaban</b> Humidity	: ( 60 ± 1 ) % rh

**HASIL KALIBRASI**  
 Result of Calibration

Parameter : Resistance

Range	Standard Nominal	Inst. Reading	Correction	Uncertainty	k
100 Ω	0.00 Ω	0.0253 Ω	-0.0253 Ω	0.0058 Ω	2.0
	10.00 Ω	10.0344 Ω	-0.0344 Ω	0.0071 Ω	2.0
	20.00 Ω	20.040 Ω	-0.040 Ω	0.063 Ω	2.0
	50.00 Ω	50.051 Ω	-0.051 Ω	0.074 Ω	2.0
	90.00 Ω	90.083 Ω	-0.083 Ω	0.087 Ω	2.0
1 kΩ	0.10000 kΩ	0.100080 kΩ	-0.000080 kΩ	0.000014 kΩ	2.0
	0.2000 kΩ	0.199969 kΩ	0.000031 kΩ	0.000014 kΩ	2.0
	0.5000 kΩ	0.499947 kΩ	0.000053 kΩ	0.000014 kΩ	2.0
	0.9000 kΩ	0.899915 kΩ	0.000085 kΩ	0.000014 kΩ	2.0
10 kΩ	1.0000 kΩ	0.99961 kΩ	0.00039 kΩ	0.00012 kΩ	2.0
	2.000 kΩ	1.99998 kΩ	0.00002 kΩ	0.00012 kΩ	2.0
	5.000 kΩ	4.99909 kΩ	0.00091 kΩ	0.00012 kΩ	2.0
	9.000 kΩ	8.99806 kΩ	0.00194 kΩ	0.00012 kΩ	2.0
100 kΩ	10.000 kΩ	9.9955 kΩ	0.0045 kΩ	0.0013 kΩ	2.0
	20.00 kΩ	20.0000 kΩ	0.0000 kΩ	0.0013 kΩ	2.0
	50.00 kΩ	49.9980 kΩ	0.0020 kΩ	0.0013 kΩ	2.0
	90.00 kΩ	90.0029 kΩ	-0.0029 kΩ	0.0013 kΩ	2.0
1 MΩ	0.10000 MΩ	0.100009 MΩ	-0.000009 MΩ	0.000018 MΩ	2.0
	0.2000 MΩ	0.200004 MΩ	-0.000004 MΩ	0.000018 MΩ	2.0
	0.5000 MΩ	0.499998 MΩ	0.000002 MΩ	0.000018 MΩ	2.0
	0.9000 MΩ	0.899883 MΩ	0.000117 MΩ	0.000018 MΩ	2.0
10 MΩ	1.0000 MΩ	1.000 MΩ	0.000 MΩ	0.069 MΩ	2.0
	2.000 MΩ	2.001 MΩ	-0.001 MΩ	0.069 MΩ	2.0
	5.000 MΩ	5.000 MΩ	0.000 MΩ	0.069 MΩ	2.0
	9.000 MΩ	8.999 MΩ	0.001 MΩ	0.069 MΩ	2.0
100 MΩ	10.0 MΩ	10 MΩ	0 MΩ	694 MΩ	2.0
	20.0 MΩ	20 MΩ	0 MΩ	694 MΩ	2.0
	50.0 MΩ	50 MΩ	0 MΩ	694 MΩ	2.0
	90.0 MΩ	90 MΩ	0 MΩ	694 MΩ	2.0
	100.0 MΩ	99 MΩ	1 MΩ	694 MΩ	2.0





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<b>Kondisi Lingkungan</b> <i>Environment condition</i>	: Suhu <i>Temperature</i>	: ( 24.4 ± 0.6 ) °C	<b>Kelembaban</b> <i>Humidity</i>	: ( 60 ± 1 ) % rh

**HASIL KALIBRASI**  
*Result of Calibration*

Parameter :	Resistance (lanjutan)				
100 Ω	0.210 Ω	-0.0086 Ω	0.2186 Ω	0.0058 Ω	2.0
100 Ω	0.308 Ω	0.0980 Ω	0.2100 Ω	0.0058 Ω	2.0
100 Ω	1.281 Ω	0.9991 Ω	0.2819 Ω	0.0059 Ω	2.0
100 Ω	10.220 Ω	10.0032 Ω	0.2168 Ω	0.0071 Ω	2.0
100 Ω	100.239 Ω	99.989 Ω	0.250 Ω	0.014 Ω	2.0
1 kΩ	1.000197 kΩ	0.99975 kΩ	0.00045 kΩ	0.00012 kΩ	2.0
10 kΩ	10.00049 kΩ	9.9983 kΩ	0.0022 kΩ	0.0013 kΩ	2.0
100 kΩ	99.9928 kΩ	99.9731 kΩ	0.0197 kΩ	0.0080 kΩ	2.0
1 MΩ	0.999985 MΩ	1.00024 MΩ	-0.00025 MΩ	0.00015 MΩ	2.0
10 MΩ	10.0011 MΩ	9.993 MΩ	0.008 MΩ	0.068 MΩ	2.0
100 MΩ	100.00 MΩ	99.4 MΩ	0.6 MΩ	1.5 MΩ	2.0

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<b>Kondisi Lingkungan</b> Environment condition	: <b>Suhu</b> Temperature	: ( 24.4 ± 0.6 ) °C	<b>Kelembaban</b> Humidity
			: ( 60 ± 1 ) % rh

**HASIL KALIBRASI**  
 Result of Calibration

Parameter : Frequency

Range	Standard Nominal	Inst. Reading	Correction	Uncertainty	k
10 Hz	1.00 Hz	1.0 Hz	0.0 Hz	3.9 Hz	2.0 #
10 Hz	10.0 Hz	10 Hz	0 Hz	39 Hz	2.0 #
100 Hz	20.0 Hz	20 Hz	0 Hz	78 Hz	2.0 #
100 Hz	50.0 Hz	50 Hz	0 Hz	196 Hz	2.0 #
1000 Hz	100.0 Hz	100 Hz	0 Hz	196 Hz	2.0
1000 Hz	200.0 Hz	200 Hz	0 Hz	610 Hz	2.0
1000 Hz	500.0 Hz	500 Hz	0 Hz	1,851 Hz	2.0
10 kHz	0.90 kHz	0.9 kHz	0.0 kHz	3.5 kHz	2.0
10 kHz	1.00 kHz	1.0 kHz	0.0 kHz	2.0 kHz	2.0
100 kHz	9.0 kHz	9 kHz	0 kHz	35 kHz	2.0
100 kHz	10.0 kHz	10 kHz	0 kHz	20 kHz	2.0
300 kHz	90.0 kHz	90 kHz	0 kHz	333 kHz	2.0
300 kHz	30.0 kHz	30 kHz	0 kHz	91 kHz	2.0
300 kHz	270.0 kHz	270 kHz	0 kHz	900 kHz	2.0
300 kHz	300.0 kHz	300 kHz	0 kHz	1,024 kHz	2.0

**Keterangan/Note :**

Tanda # adalah nilai yang tidak terakreditasi, namun ditampilkan untuk kelengkapan.

**Standar Kalibrasi/Reference Standard** : Transmille 9041A (ELC001C) & Transmille EA015 (ELC001B)

**Tertelusur ke SI melalui/Traceable to SI through** : Transmille Ltd. (UKAS Accredited Laboratory)

**Prosedur Kalibrasi/Calibration Procedure** : STM/IK-KELISTRIKAN/08

Ketidakpastian pengukuran yang dilaporkan adalah ketidakpastian bentangan pada tingkat kepercayaan sekitar 95% dengan factor cakupan k

The report of measurement's uncertainty is expanded uncertainty with confidence level approximately 95% with coverage factor k

**Penunjukan Sebenarnya = Penunjukan Alat + Koreksi**

Actual Reading = Instrument's Reading + Correction

Hasil kalibrasi ini hanya berlaku untuk alat ukur yang Identifikasinya tercantum dalam sertifikat ini.

This calibration result is only applicable to the measurement device which identification is listed on this certificate.

Disella oleh  
 Checked by



**Antonius Rendra S. D.**  
 Manajemen Teknis

— Akhir dari Sertifikat / End of Certificate —