



PEMERINTAH PROVINSI DAERAH ISTIMEWA YOGYAKARTA
DINAS PERINDUSTRIAN, PERDAGANGAN, KOPERASI DAN USAHA KECIL MENENGAH

BALAI METROLOGI

Jl. Sisingsamangaraja No. 21 Yogyakarta Telp. (0274) 375062, 377303 Fax. (0274) 375062

SERTIFIKAT KALIBRASI CALIBRATION CERTIFICATE

Nomor : 4120 / MET / SW - 121 / XII / 2011

Number

No. Order : 001978

Diterima tgl : 19 Desember 2011

ALAT

Equipment

Nama : Stopwatch

Name

Kapasitas : 1 jam

Capacity

Tipe/Model :

Type/Model

Nomor Seri

Serial number

Merek/Buatan : Casio

Trade Mark/Manufaktur

Lain-lain

Other

PEMILIK

Owner

Nama

Name

Alamat

Address

: Yunita Indri Astuti

: Banjarn RT 004 RW 006 Magelang

METODE, STANDAR, TELUSURAN

Method, Standard, Traceability

Metode

Method

Standar

Standard

Telusuran

Traceability

: ISO 4168 (1976) Time Measurement Instrument

: Casio HS-80TW.IDF

: Tertelusur ke satuan SI Direktorat Metrologi Bandung

TANGGAL DIKALIBRASI

Date of Calibrated

LOKASI KALIBRASI

Location of calibration

KONDISI LINGKUNGAN KALIBRASI

Environment condition of calibration

HASIL

Result

: 20 Desember 2011

: Balai Metrologi Yogyakarta

: Suhu : 30°C ; Kelembaban : 55%

: Lihat sebaliknya

Yogyakarta, 20 Desember 2011

Pih Kepala Balai Metrologi



BALAI
METROLOGI

NIP. 19591210 198401 1 003

Halaman 1 dari 1 Halaman

FBM.22-02.T

DILARANG MENGGANDAKAN SEBAGIAN ATAU SELURUHNYA ISI DARI SERTIFIKAT INI TANPA SEIZIN KEPALA BALAI METROLOGI YOGYAKARTA

LAMPIRAN SERTIFIKAT KALIBRASI
ATTACHMENT OF CALIBRATION CERTIFICATE

I. DATA KALIBRASI
Calibration data

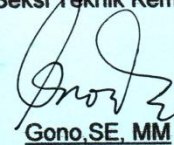
1. Referensi : -

2. Dikalibrasi oleh : Mulyadi NIP. 19570214.198003.1.006
Calibrated by

II. HASIL KALIBRASI
Result of Calibration

Nominal (menit)	Nilai Sebenarnya (menit)
00,01'00"000	00,01'00"007
00,05'00"000	00,05'00"005
00,10'00"000	00,10'00"007
00,15'00"000	00,15'00"030
00,30'00"000	00,30'00"019
00,59'00"000	00,59'00"017

Kepala Seksi Teknik Kemetrologian



Gono, SE, MM
NIP. 19610807.198202.1.007



PEMERINTAH PROVINSI DAERAH ISTIMEWA YOGYAKARTA
DINAS PERINDUSTRIAN, PERDAGANGAN, KOPERASI DAN USAHA KECIL MENENGAH

BALAI METROLOGI

Jl. Sisingamangaraja No. 21 Yogyakarta Telp. (0274) 375062, 377303 Fax. (0274) 375062

SERTIFIKAT PENERAAN VERIFICATION CERTIFICATE

Nomor : 3596 / MET / UP - 321 / XI / 2011

Number

No. Order : 001808

Diterima tgl : 17 Nopember 2011

ALAT

Equipment

Nama : Ban Ukur

Name

Kapasitas : 5.000 cm

Capacity

Tipe/Model :

Type/Model

Nomor Seri :

Serial number

Merek/Buatan : YAMAYO

Trade Mark / Manufaktur

Lain-lain :

other

PEMILIK

Owner

Nama :

Name

Alamat :

Address

Yudi Dwi Antoro

Jamblangan RT 04A, RW 31 Banguntapan Bantul

METODE, STANDART, TELUSURAN

Method, Standard, Traceability

Metode :

Method

SK Ditjen PDN No 32/ PDN /KEP/3/2010

Standard :

Standard

Komparator 10 m

Telusuran :

Traceability

Tertelusur ke satuan SI Direktorat Metrologi Bandung

TANGGAL TERA ULANG

Date of Verification

18 Nopember 2011

LOKASI TERA ULANG

Location of Verification

Balai Metrologi Yogyakarta

KONDISI LINGKUNGAN TERA ULANG

Environment condition of Verification

Suhu : 30°C ; Kelembaban : 55%

HASIL TERA ULANG

Result of verification

DISAHKAN UNTUK TERA ULANG TAHUN 2011

DITERA ULANG KEMBALI

Reverification

18 Nopember 2012



Halaman 1 dari 1 Halaman

FBM.22-01.T

DILARANG MENGGANDAKAN SEBAGIAN ATAU SELURUHNYA ISI DARI SERTIFIKAT INI TANPA SEIZIN KEPALA BALAI METROLOGI YOGYAKARTA

LAMPIRAN SERTIFIKAT PENERAAN
ATTACHMENT OF VERIFICATION CERTIFICATE

I. DATA PENERAAN

Verification data

1. Referensi : -

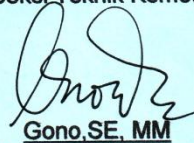
2. Ditera ulang oleh : Priyanto NIP. 19580416.198203.1.013
Verified by

II. HASIL

Result

Nominal (cm)	Nilai Sebenarnya (cm)
0 - 1.000	1.000,00
0 - 2.000	2.000,00
0 - 3.000	3.000,00
0 - 4.000	4.000,00
0 - 5.000	5.000,00

Kepala Seksi Teknik Kemetrolgian



Gono SE, MM
NIP. 19610807.198202.1.007



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BALAI METROLOGI

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SERTIFIKAT KALIBRASI CALIBRATION CERTIFICATE

Nomor : 3570 / MET / SW - 109 / XI / 2011

Number

No. Order : 001808

Diterima tgl : 17 November 2011

ALAT

Equipment

Nama : Stopwatch

Name

Kapasitas : 1 jam

Capacity

Tipe/Model :

Type/Model

Nomor Seri :

Serial number

Merek/Buatan : YAMAHA

Trade Mark/Manufaktur

Lain-lain :

Other

PEMILIK

Owner

Nama : Yudi Dwi Antoro

Name

Alamat : Jamblangan RT 044, RW 31 Banguntapan Bantul

Address

METODE, STANDAR, TELUSURAN

Method, Standard, Traceability

Metode : ISO 4168 (1976) Time Measurement Instrument

Method

Standar : Casio HS-80TW.IDF

Standard

Telusuran : Tertelusur ke satuan SI Direktorat Metrologi Bandung

Traceability

TANGGAL DIKALIBRASI

Date of Calibrated

: 17 November 2011

LOKASI KALIBRASI

Location of calibration

: Balai Metrologi Yogyakarta

KONDISI LINGKUNGAN KALIBRASI

Environment condition of calibration

: Suhu : 30°C ; Kelembaban : 55%

HASIL

Result

: Lihat sebaliknya



Halaman 1 dari 1 Halaman

FBM.22-02.T

LAMPIRAN SERTIFIKAT KALIBRASI
ATTACHMENT OF CALIBRATION CERTIFICATE

I. DATA KALIBRASI

Calibration data

1. Referensi : -

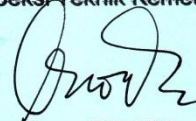
2. Dikalibrasi oleh : Priyanto NIP. 19580416.198203.1.006
Calibrated by

II. HASIL KALIBRASI

Result of Calibration

Nominal (menit)	Nilai Sebenarnya (menit)
00,01'00"00	00,01'00"01
00,05'00"00	00,05'00"00
00,10'00"00	00,10'00"01
00,15'00"00	00,15'00"00
00,30'00"00	00,30'00"01
01,00'00"00	01,00'00"03

Kepala Seksi Teknik K metrologian



Gono, SE, MM
NIP. 19610807.198202.1.007

Lampiran 7. Frekuensi Data

Frequencies

Statistics

		TKJI Sanden	TKJI Pundong
N	Valid	33	30
	Missing	30	33
	Mean	11.9394	15.4667
	Median	12.0000	15.0000
	Mode	12.00 ^a	15.00
	Std. Deviation	1.86982	2.25501
	Variance	3.496	5.085
	Minimum	8.00	11.00
	Maximum	15.00	20.00

a. Multiple modes exist. The smallest value is shown

Frequency Table

TKJI Sanden

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	8	2	3.2	6.1	6.1
	9	2	3.2	6.1	12.1
	10	3	4.8	9.1	21.2
	11	5	7.9	15.2	36.4
	12	7	11.1	21.2	57.6
	13	7	11.1	21.2	78.8
	14	5	7.9	15.2	93.9
	15	2	3.2	6.1	100.0
	Total	33	52.4	100.0	
Missing	System	30	47.6		
Total		63	100.0		

TKJI Pundong

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	11	2	3.2	6.7	6.7
	12	1	1.6	3.3	10.0
	13	2	3.2	6.7	16.7
	14	4	6.3	13.3	30.0
	15	8	12.7	26.7	56.7
	16	3	4.8	10.0	66.7
	17	3	4.8	10.0	76.7
	18	5	7.9	16.7	93.3
	19	1	1.6	3.3	96.7
	20	1	1.6	3.3	100.0
	Total	30	47.6	100.0	
Missing	System	33	52.4		
Total		63	100.0		

Lampiran 8. Uji Normalitas

Chi-Square Test

Frequencies

TKJI Sanden

	Observed N	Expected N	Residual
8	2	4.1	-2.1
9	2	4.1	-2.1
10	3	4.1	-1.1
11	5	4.1	.9
12	7	4.1	2.9
13	7	4.1	2.9
14	5	4.1	.9
15	2	4.1	-2.1
Total	33		

TKJI Pundong

	Observed N	Expected N	Residual
11	2	3.0	-1.0
12	1	3.0	-2.0
13	2	3.0	-1.0
14	4	3.0	1.0
15	8	3.0	5.0
16	3	3.0	.0
17	3	3.0	.0
18	5	3.0	2.0
19	1	3.0	-2.0
20	1	3.0	-2.0
Total	30		

Test Statistics

	TKJI Sanden	TKJI Pundong
Chi-Square	7.970 ^a	14.667 ^b
df	7	9
Asymp. Sig.	.335	.101

a. 8 cells (100.0%) have expected frequencies less than 5. The minimum expected cell frequency is 4.1.

b. 10 cells (100.0%) have expected frequencies less than 5. The minimum expected cell frequency is 3.0.

Lampiran 9. Uji Homogenitas

Test of Homogeneity of Variances

TKJI peserta ekstrakurikuler sepakbola

Levene Statistic	df1	df2	Sig.
1.107	1	61	.297

Lampiran 10. Uji Hipotesis (uji T)

T-Test

Group Statistics

kelompok	N	Mean	Std. Deviation	Std. Error Mean
TKJI peserta ekstrakurikuler sepakbola SMP N 1 Sanden	33	11.9394	1.86982	.32549
ekstrakurikuler sepakbola SMP N 1 Pundong	30	15.4667	2.25501	.41171

Independent Samples Test

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
TKJI peserta ekstrakurikuler sepakbola	Equal variances assumed	1.107	.297	-6.781	61	.000	-3.52727	.52015	-4.56737	-2.48717
	Equal variances not assumed			-6.721	56.558	.000	-3.52727	.52483	-4.57841	-2.47614