



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya

Email: info@kenyaccreditation.org Web: www.kenyaccreditation.org

SCHEDULE OF ACCREDITATION

INSTRUMENTATION LIMITED

Calibration Laboratory Number: **KENAS/CL/05**

Date of Accreditation: 04th December 2012

PERMANENT ADDRESS OF LABORATORY

Wilson Airport, Plot No. BLD 37- Nairobi

P. O. BOX 44356

00100

NAIROBI, KENYA

Tel: 020 - 6004512

Email: yusufinstrumentkenya@gmail.com, yusuf@instrumentkenya.com

Technical Manager:

1. **Mr. Yusuf Elyas**

Technical Signatories:

1. Yusuf Elyas
2. Mahmood Mir

Date of expiry: 04th December 2015

Approved by: _____ Date: 04th December 2012
KENAS CEO/Authorized Representative



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya

Email: info@kenyaaccreditation.org Web: www.kenyaaccreditation.org

SCHEDULE

Torque :	67.5 to 297Nm:	Torque Wrench
Temperature:	0-250°C	Direct Comparison- Digital thermometer
	0°C to 1700°C:	Simulation by T/C - Potentiometer
	-50°C to 500°C:	Simulation RTD – Wheatstone Bridge
Pressure	1-10,000psi	Digital Pressure gauge / Test Pressure Gauge
	-32-1 in Hg	
Revolution	600-3000rpm	Maxwell bridge

#	Measurand	Equipment	Measurement Range	Traceability	Best Measurement Capability (BMC) expressed as expanded uncertainty(k=2)	
					Measurement range	Best Measurement Capability (BMC)±
1.	Torque	Torque Meter	67.5Nm – 320Nm	KEBS BS/MET/3/3/37/035	67.5Nm – 320Nm	± 0.41%
2.	Temperature	Portable Wheatstone Bridge	-50°C - 500°C	KEBS BS/MET/9/3/34/034	x 1 Ω, 10 Ω, 100 Ω, 1000 Ω decade	
					0 Ω	$1,2 \cdot 10^{-4}$
					1 Ω - 10 Ω	$6,0 \cdot 10^{-5}$
					10 Ω - 100 Ω	$6,0 \cdot 10^{-5}$
					100 Ω - 1000 Ω	$6,0 \cdot 10^{-5}$
					1000 Ω - 10000 Ω	$6,0 \cdot 10^{-5}$
		Potentiometer	-50°C - 1700°C	KEBS BS/MET/9/34/034	20 mV (Source)	
				1mV	$5,8 \times 10^{-2}$	



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya

Email: info@kenyaaccreditation.org Web: www.kenyaaccreditation.org

					2,0mV	$2,9 \times 10^{-2}$
					4,0mV	$1,5 \times 10^{-2}$
					6,0mV	$9,8 \times 10^{-3}$
					8,0mV	$7,3 \times 10^{-3}$
					10,0mV	$5,9 \times 10^{-3}$
					12,0mV	$4,9 \times 10^{-3}$
					14,0mV	$4,2 \times 10^{-3}$
					16,0mV	$3,7 \times 10^{-3}$
					18,0mV	$3,3 \times 10^{-3}$
					20,0mV	$2,9 \times 10^{-3}$
					60 mV (Source)	
					5,0mV	$4,3 \times 10^{-2}$
					10,0mV	$2,5 \times 10^{-2}$
					15,0mV	$1,7 \times 10^{-2}$
					20,0mV	$1,3 \times 10^{-2}$
					25,0mV	$1,1 \times 10^{-2}$
					30,0mV	$9,3 \times 10^{-3}$
					35,0mV	$8,0 \times 10^{-3}$
					40,0mV	$7,1 \times 10^{-3}$
					45,0mV	$6,3 \times 10^{-3}$
					50mV	$5,7 \times 10^{-3}$
					55,0mV	$5,2 \times 10^{-3}$
					60,0mV	$4,8 \times 10^{-3}$



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya

Email: info@kenyaaccreditation.org Web: www.kenyaaccreditation.org

					20 mV (Measure)	
					1,0mV	$5,8 \times 10^{-2}$
					2,0mV	$2,9 \times 10^{-2}$
					3,0mV	$1,9 \times 10^{-2}$
					4,0mV	$1,4 \times 10^{-2}$
					5,0mV	$1,3 \times 10^{-2}$
					6,0mV	$9,6 \times 10^{-3}$
					7,0mV	$8,2 \times 10^{-3}$
					8,0mV	$7,2 \times 10^{-3}$
					9,0mV	$6,4 \times 10^{-3}$
					10,0mV	$5,8 \times 10^{-3}$
					11,0mV	$5,2 \times 10^{-3}$
					12,0mV	$4,8 \times 10^{-3}$
					13,0mV	$4,4 \times 10^{-3}$
					14,0mV	$4,1 \times 10^{-3}$
					15,0mV	$3,8 \times 10^{-3}$
					16,0mV	$3,6 \times 10^{-3}$
					17,0mV	$3,4 \times 10^{-3}$
					18,0mV	$3,2 \times 10^{-3}$
					19mV	$3,0 \times 10^{-3}$
					20mV	$2,9 \times 10^{-3}$
					60 mV (Measure)	
					5,0mV	$5,8 \times 10^{-2}$



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya

Email: info@kenyaaccreditation.org Web: www.kenyaaccreditation.org

					10,0mV	$2,9 \times 10^{-2}$
					15,0mV	$1,9 \times 10^{-2}$
					20,0mV	$1,4 \times 10^{-2}$
					25,0mV	$1,2 \times 10^{-2}$
					30,0mV	$9,6 \times 10^{-3}$
					35,0mV	$8,2 \times 10^{-3}$
					40,0mV	$7,2 \times 10^{-3}$
					45,0mV	$6,4 \times 10^{-3}$
					50,0mV	$5,8 \times 10^{-3}$
					55,0mV	$5,2 \times 10^{-3}$
					60,0mV	$4,8 \times 10^{-3}$
					200 Ω (Measure)	
					5 Ω	$1,2 \times 10^{-2}$
					10 Ω	$5,8 \times 10^{-3}$
					30 Ω	$1,9 \times 10^{-1}$
					50 Ω	$1,4 \times 10^{-1}$
					100 Ω	$1,2 \times 10^{-1}$
					150 Ω	$9,6 \times 10^{-2}$
					200 Ω	$8,2 \times 10^{-2}$
		Digital Thermometer	0°C - 250°C	KEBS BS/MET/4/3/79/124	0°C - 250°C	$\pm 1.2^\circ\text{C}$
3.	Pressure	Pressure Gauge – Bourdon Tube (Budenberg Gauge)	0,1bar – 1,0bar	KEBS BS/MET/5/3/59/067	0,1bar – 1,0bar	$\pm 0.25\text{bar}$



KENYA ACCREDITATION SERVICE

P. O. Box 47400-00100, TEL. +254-787-395679, +254-725-227640 Nairobi, Kenya

Email: info@kenyaaccreditation.org Web: www.kenyaaccreditation.org

		Pressure Gauge – Bourdon Tube (Rototherm)	1psi – 10000psi	KEBS BS/MET/5/3/59/068	1psi – 10,000psi	± 0.25psi
4.	Revolution	Revolution Counter	600rpm – 3000rpm	KEBS BS/MET/7/3/34/106	0 – 1000rpm	± 2.5rpm
					1000rpm – 2000rpm	± 2.5rpm
					2000rpm – 3000rpm	± 2.6rpm

Original Date of Accreditation: 04 December 2012

Note:

KEBS: Kenya Bureau of Standards

This schedule is issued subject to the terms and conditions of KENAS Accreditation

Approved by: _____ **Date: 04 December 2012**
KENAS CEO/Authorized Representative