

**LIST TIPE DAN KALIBRASI PERALATAN
PEKERJAAN KONSULTANSI INSPEKSI DAN ENGINEERING
TANGKI KONDENSAT F-6104**

No	Peralatan	Tipe	Kalibrasi	Keterangan
1	Rapid Motion Scanner (RMS)	RMS2PA Scanner 600	11/04/2023 s.d. 11/04/2024	Sertifikat Terlampir
	RMS Water Pump	RWP-57 Ruggedised	11/04/2023 s.d. 11/04/2024	Sertifikat Terlampir
	RMS Control Box	Silverwing RMS2 Single Crystal	11/04/2023 s.d. 11/04/2024	Sertifikat Terlampir
2	Total Station	TOPCON	08/09/2023 s.d. 08/03/2024	Sertifikat Terlampir
3	UT Thickness	Olympus 27MG	20/12/2023 s.d. 20/12/2024	Sertifikat Terlampir
4	UT Thickness	Waygate DM5E	26/04/2023 s.d. 26/04/2024	Sertifikat Terlampir
5	Coating Thickness	Elcometer F/456B	09/05/2023 s.d. 09/05/2024	Sertifikat Terlampir
6	Magnetic Flux Leakage (MFL)	TRUFLUX	03/01/2024 s.d. 03/01/2025	Sertifikat Terlampir
7	Earth Clamp Tester	Kyoritsu 4200	07/12/2023 s.d. 07/12/2024	Sertifikat Terlampir

Foto juga ditambahkan, kenapa peralatan kemarin di hapus?

PT SUCOFINDO



Ir. Heru Santoso

Project Manager

ISSUED FOR INFORMATION



Certificate of Conformity

*This is to Certify that
the following: -*

Equipment: RMS2PA Scanner 600

Serial Number: 690423

Has been inspected and tested in accordance with the manufacturer's specifications unless otherwise stated.

Dated: 11/04/2023

A handwritten signature in black ink, appearing to read 'J M'.

Authorised signatory for
Eddyfi UK Ltd.

ISSUED FOR INFORMATION

Eddyfi UK Ltd Clos Llyn Cwm, Swansea Enterprise Park, Swansea, SA6 8QY Wales, UK

t: +44 (0) 1792 798711 f: +44 (0) 1792 793481 e: info@eddyfi.com w: www.eddyfi.com

Registered No. 3835805

Doc Ref: QF05-RMS2PA Rev: 01
Release date: 26/07/2019

Certificate of Conformity

*This is to Certify that
the following:-*

Equipment: RWP-57 Ruggedised Water Pump

Serial Number: 700423

Has been inspected and tested in accordance with the manufacturer's specifications unless otherwise stated.

Dated: 11/04/2023



Authorised signatory for
Eddyfi UK Ltd.

ISSUED FOR INFORMATION



Certificate of Calibration

*This is to Certify that
the following: -*

Equipment: Silverwing RMS2 Single Crystal Control Box

Serial Number: 360223

Has been calibrated in accordance with calibration procedure: RMS.CAL

Date of Calibration: 11/04/2023

Expiry Date: 11/04/2024

A handwritten signature in black ink, appearing to read 'J M'.

Authorised signatory for
Eddyfi UK Ltd.

ISSUED FOR INFORMATION

Eddyfi UK Ltd Clos Llyn Cwm, Swansea Enterprise Park, Swansea, SA6 8QY Wales, UK

t: +44 (0) 1792 798711 f: +44 (0) 1792 793481 e: info@eddyfi.com w: www.eddyfi.com

Registered No. 3835805

Doc Ref: QF05-RMS2SCCTRL
Rev: 01
Release date: 26/07/2019



Certificate of Conformity

*This is to Certify that
the following:-*

Equipment: RMS2 Single Crystal Control Box

Serial Number: 360223

Has been inspected and tested in accordance with the manufacturer's specifications unless otherwise stated.

Dated: 11/04/2023

A handwritten signature in black ink, appearing to read 'J. M.'

Authorised signatory for
Eddyfi UK Ltd.

ISSUED FOR INFORMATION

Eddyfi UK Ltd Clos Llyn Cwm, Swansea Enterprise Park, Swansea, SA6 8QY Wales, UK

t: +44 (0) 1792 798711 f: +44 (0) 1792 793481 e: info@eddyfi.com w: www.eddyfi.com

Registered No. 3835805

Doc Ref: QF05-RMS2SCCTRL

Rev: 01

Release date: 26/07/2019



LABORATORIUM KALIBRASI PT KESUMA
Jl. Jendral Sudirman Perkantoran Sudirman Raya Blok D.1 Pekanbaru Riau
Telp. 0761-39094; Fax. 0761-7892179 ; Home Page : <http://www.ptkesuma.com>

SERTIFIKAT KALIBRASI

TS/KSM-LKK/K/024/IX/2023

IDENTITAS ALAT

Nama : TOTAL STATION
Merk : TOPCON
Tipe/Nomor Seri : ES - 105 / BS0208
Resolusi : 5 detik
Kondisi Alat : Baik
Massa Kalibrasi : 08/09/2023 s.d 08/03/2024

IDENTITAS PEMHLIK

Nama : PT. SUPERINTENDING COMPANY OF INDONESIA
Alamat : Pekanbaru - Riau

METODE KALIBRASI : ISO-17123:2001 part 3

KETERTELUSURAN : Hasil kalibrasi ini tertelusur ke Standar Collimator
Laboratorium Kalibrasi PT Kesuma

Pekanbaru, 08 September 2023



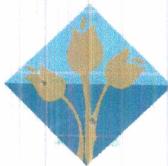
PT. KESUMA
PEKANBARU

Ir. Debbie Rahayu Senjaya

Direktur Operational

ISSUED FOR INFORMATION

*Tidak dibenarkan mengutip/memperbanyak dan/atau mempublikasikan sebagian isi sertifikat ini tanpa ijin PT KESUMA
Sertifikat ini sah bila telah dibubuh cap PT. KESUMA dan ditandatangani oleh pejabat yang berwenang
Hasil kalibrasi ini hanya berhubungan dengan alat yang diterima laboratorium sesuai dengan Serial Number*



Nomor Sertifikat : TS/KSM-LKK/K/024/IX/2023

HASIL KALIBRASI

Accuracy of Instrument :

Spesifikasi standar		Kesalahan sebelum kalibrasi	Selisih	Setelah kalibrasi (*)
Magnification	30x	checked	-	30x
Circular Level 1	30"/2mm	-	-	30"/2mm
Circular Level 2	10'/2mm	-	-	10'/2mm
Vertical Angle Accuracy	5"	15"	10"	5"
Horizontal Angle Accuracy	5"	11"	6"	5"
Perpendicularity of Cross-hair	Checked	checked	-	Checked
Measurement Distance	$\pm(3+2\text{ppm}D)$	checked	-	$\pm(3+2\text{ppm}D)$
Optical Plummet	0.5 mm	0.8 mm	0.3 mm	0.5 mm

Hasil Ketidakpastian merupakan ketidakpastian bentangan yang diperoleh dari sumber kesalahan tipe A dan tipe B pada tingkat kepercayaan 95% dengan faktor cakupan $k=2$

Pekanbaru, 08 September 2023




Iqbal Hilham

Technical Service Engineer

ISSUED FOR INFORMATION



Certificate No. 19136/ENBPAP
Date: December 26, 2023

Issuing Office:
Jl. Arteri Tol Cibitung No. 1, Cibitung Bekasi 17520, Indonesia
Phone/Fax: +62 21 88321176/021 88321166
Email: cs.cbt@sucofindo.co.id

CERTIFICATE OF CALIBRATION

CLIENT : PT. SUPERINTENDING COMPANY OF INDONESIA (SUCOFINDO)
ADDRESS : JALAN JEND. GATOT SUBROTO KM. 5.5 NOMOR 105 MEDAN
NAME OF EQUIPMENT : ULTRASONIC THICKNESS GAUGE
TYPE / MODEL : 27 MG
RANGE / RESOLUTION (mm) : 0 ~ 100 / 0.01
MANUFACTURER : OLYMPUS
INVENTORY NO. : MDN 0020-10003

The Attachment available is an integral part of this certificate.

This calibration result(s) related to the sample(s) submitted only and the certificate cannot be reproduced in any way, except in full context and with the prior approval in writing from Sucofindo Laboratory.

This Certificate/report is issued under our General Terms and Conditions, copy of which is available upon request or may be accessed at www.sucofindo.co.id



Fitri Muhamady

38010522001876

ISSUED FOR INFORMATION



4344996

SCI - 2007A

Attachment
To Certificate No. 19136/ENBPAP
Date: December 26, 2023

Page 2 of 2



Issuing Office:
Phone/Fax: +62 21 88321176/021 88321166
Jl. Arteri Tol Cibitung No. 1, Cibitung Bekasi 17520, Indonesia
Email: cs.cbt@sucofindo.co.id

CERTIFICATE OF CALIBRATION

TESTING CONDITION,

- TEMPERATURE : $(19,8 \pm 0,1)^\circ\text{C}$
- HUMIDITY : $(47 \pm 2)\%$
STANDARD & EQUIPMENT : GAUGE BLOCK GRADE 0
Serial No. 978412
Certificate of Calibration No. DI.4091.21
THERMOHYGROMETER
Serial No. DM-04
Certificate of Calibration No. Cal. 8222021

The measurement is traceable to International System of Units (SI) through LK-023-IDN & LK-054-IDN

CALIBRATION METHOD : DIRECT COMPARISON
RECEIVED ON : December 14, 2023
DATE OF CALIBRATION : December 20, 2023

RESULTS :

Range	Equipment Reading	Standard Value	Correction	Uncertainty of Measurement (at 95% CL,k=2)
mm	mm	mm	mm	mm
0 ~ 100	1,00	0,99993	0,00	0,0085
	5,00	5,00004	0,00	0,0085
	10,00	9,99994	0,00	0,0080
	20,01	20,00005	0,00	0,0080
	25,00	25,00006	0,00	0,0085
	50,07	50,00005	-0,07	0,0080
	75,25	75,00005	-0,25	0,0080
	100,24	100,00006	-0,24	0,0080



ISSUED FOR INFORMATION



2147687

SERTIFIKAT KALIBRASI (CALIBRATION CERTIFICATE)



F-CP-02-02

Tanggal : 26 April 2023

Date

Nomor : 022/UTG/PPN/IV/23

Number

<u>Pelanggan</u> : <i>Customer</i> PT. Superintending Company of Indonesia	<u>Lokasi Kalibrasi</u> : <i>Location of calibration</i> Tangerang
<u>Alamat pelanggan</u> : <i>Customer address</i> Jl. Soekarno Hatta No. 280 Cilacap	<u>Metoda kalibrasi yang digunakan</u> : <i>Calibration methode used</i> Perbandingan langsung (<i>Direct Comparison</i>) dengan standar acuan
<u>Tanggal dan kondisi alat saat diterima</u> : <i>Date and condition of instrument receipt</i> : 18 April 2023 dalam keadaan baik	<u>Tanggal kalibrasi</u> : <i>Calibration date</i> 18 April 2023
<u>Kondisi ruangan kalibrasi</u> : <i>Enviromental condition of calibration</i>	<u>Nomor PO</u> : 035/SPP/IV/23 <i>Order Number</i>
<u>Suhu</u> : (20.1) ± 1.3°C <i>Humidity</i>	<u>Referensi</u> : <i>Reference</i> Menggunakan PPN/CP/02 mengacu ke BS EN 15317:2013 Group 2 Par. 9.13 dan ASTM E797 2015 Par 8.
<u>Kelembaban</u> : (50.0)± 4% <i>Temperature</i>	
<u>Keterangan alat</u> <i>Instrument description</i>	<u>Standar acuan</u> <i>Calibrator</i>
<u>Nama</u> : Ultrasonic Thickness Gauge <i>Name</i>	<u>Nama</u> : Step Wedge <i>Name</i>
<u>Merk/Tipe</u> : GE / DM5E <i>Brand/Type</i>	<u>Merk/Tipe</u> : GE <i>Brand/Type</i>
<u>Nomor seri</u> : DM5EG1710402 <i>Serial number</i>	<u>Nomor seri</u> : 54748 <i>Serial number</i>
<u>Buatan</u> : Germany <i>Manufacture</i>	<u>Masa berlaku</u> : 11-Sept-2023 <i>Date due</i>
<u>Kapasitas</u> : - <i>Capacity</i>	<u>Tertelusur ke SI</u> : Melalui LK-032-IDN <i>Traceable to IS</i> Through

Silahkan lihat di lampiran untuk lebih lengkapnya

Please see attached for details

Divisi Lab. Kalibrasi
Calibration laboratory Division

 Dendy Efendy
 Manajer Teknik
 Technical Manager

Halaman 1 dari 2
 Page 1 of 2

ISSUED FOR INFORMATION

Perhatian/Attention :

Sertifikat Ini tidak boleh digandakan kecuali secara lengkap, tanpa izin tertulis dari Laboratorium kalibrasi PT Pratita Prama Nugraha
 This certificate shall not be reproduced except in full, without written approval of the PT Pratita Prama Nugraha Calibration Laboratory

Hasil yang didapat dari sertifikat ini hanya berkaitan dengan benda/alat yang dikalibrasikan



Tanggal : 26 April 2023
Date

Nomor : 022/UTG/PPN/IV/23
Number

F-CP-02-02

HASIL KALIBRASI
CALIBRATION RESULTS

Standard (mm)	Instrument reading before Adjustment (mm)	Instrument readings (mm)	Deviation (mm)	Limit \pm (mm)	Result (pass/fail)	Measurement Uncertainty (mm)
0.98	0.91	0.96	-0.02	± 0.03	PASS	U = 0.022 CL = 95% k = 2
1.98	1.90	1.98	0.00	± 0.03	PASS	
2.98	2.92	2.98	0.00	± 0.03	PASS	
3.98	3.91	3.98	0.00	± 0.03	PASS	
4.98	4.94	4.99	0.01	± 0.03	PASS	
5.98	5.93	5.99	0.01	± 0.03	PASS	
6.98	6.94	6.99	0.01	± 0.03	PASS	
7.98	8.50	7.98	0.00	± 0.03	PASS	

Catatan / Notes : - Pembacaan alat merupakan nilai rata-rata, diambil dari tiga kali pengukuran
The instrument readings are average value, taken from three measurements
- Nilai sebenarnya adalah nilai pembacaan alat dikurang nilai penyimpangan
Deviation are reduce to the reading for obtaining true reading
- Nilai ketidakpastian didapat dengan tingkat kepercayaan 95% dan faktor Cakupan (k) = 2
The uncertainty is taken at a confidence level 95 % and coverage factor (k) = 2

Dikalibrasi oleh
Calibration by

Sigit Nugroho
Teknisi
Technician

ISSUED FOR INFORMATION

SERTIFIKAT KALIBRASI (CALIBRATION CERTIFICATE)



F-CP-02-02

Tanggal : 26 April 2023

Date

Nomor : 021/UTG/PPN/IV/23

Number

<u>Pelanggan</u> : <i>Customer</i> PT. Superintending Company of Indonesia	<u>Lokasi Kalibrasi</u> : <i>Location of calibration</i> Tangerang
<u>Alamat pelanggan</u> : <i>Customer address</i> Jl. Soekarno Hatta No. 280 Cilacap	<u>Metoda kalibrasi yang digunakan</u> : <i>Calibration methode used</i> Perbandingan langsung (<i>Direct Comparison</i>) dengan standar acuan
<u>Tanggal dan kondisi alat saat diterima</u> : <i>Date and condition of instrument receipt</i> : 18 April 2023 dalam keadaan baik	<u>Tanggal kalibrasi</u> : <i>Calibration date</i> 18 April 2023
<u>Kondisi ruangan kalibrasi</u> : <i>Enviromental condition of calibration</i>	<u>Nomor PO</u> : 035/SPP/IV/23 <i>Order Number</i>
<u>Suhu</u> : (20.1) ± 1.3°C <i>Humidity</i>	<u>Referensi</u> : <i>Reference</i> Menggunakan PPN/CP/02 mengacu ke BS EN 15317:2013 Group 2 Par. 9.13 dan ASTM E797 2015 Par 8.
<u>Kelembaban</u> : (50.0)± 4% <i>Temperature</i>	
<u>Keterangan alat</u> <i>Instrument description</i>	<u>Standar acuan</u> <i>Calibrator</i>
<u>Nama</u> : Ultrasonic Thickness Gauge <i>Name</i>	<u>Nama</u> : Step Wedge <i>Name</i>
<u>Merk/Tipe</u> : GE / DM5E <i>Brand/Type</i>	<u>Merk/Tipe</u> : GE <i>Brand/Type</i>
<u>Nomor seri</u> : DM5EG2103514 <i>Serial number</i>	<u>Nomor seri</u> : 54748 <i>Serial number</i>
<u>Buatannya</u> : Germany <i>Manufacture</i>	<u>Masa berlaku</u> : 11-Sept-2023 <i>Date due</i>
<u>Kapasitas</u> : - <i>Capacity</i>	<u>Tertelusur ke SI</u> : Melalui LK-032-IDN <i>Traceable to IS</i> Through

Silahkan lihat di lampiran untuk lebih lengkapnya

Please see attached for details

Divisi Lab. Kalibrasi
Calibration laboratory Division

 Dendy Efendy
 Manajer Teknik
 Technical Manager

Halaman 1 dari 2

Page 1 of 2

ISSUED FOR INFORMATION

Perhatian/Attention :

Sertifikat Ini tidak boleh digandakan kecuali secara lengkap, tanpa izin tertulis dari Laboratorium kalibrasi PT Pratita Prama Nugraha
 This certificate shall not be reproduced except in full, without written approval of the PT Pratita Prama Nugraha Calibration Laboratory

Hasil yang didapat dari sertifikat ini hanya berkaitan dengan benda/alat yang dikalibrasikan

The result relate only to the items / equipment calibrated



Tanggal : 26 April 2023
Date

Nomor : 021/UTG/PPN/IV/23
Number

F-CP-02-02

HASIL KALIBRASI
CALIBRATION RESULTS

Standard (mm)	Instrument reading before Adjustment (mm)	Instrument readings (mm)	Deviation (mm)	Limit ± (mm)	Result (pass/fail)	Measurement Uncertainty (mm)
0.98	0.91	0.96	-0.02	± 0.03	PASS	U = 0.022 CL = 95% k = 2
1.98	1.90	1.99	0.01	± 0.03	PASS	
2.98	2.92	2.99	0.01	± 0.03	PASS	
3.98	3.91	3.99	0.01	± 0.03	PASS	
4.98	4.94	4.99	0.01	± 0.03	PASS	
5.98	5.93	6.00	0.02	± 0.03	PASS	
6.98	6.94	7.00	0.02	± 0.03	PASS	
7.98	8.50	8.00	0.02	± 0.03	PASS	

Catatan / Notes :

- Pembacaan alat merupakan nilai rata-rata, diambil dari tiga kali pengukuran
The instrument readings are average value, taken from three measurements
- Nilai sebenarnya adalah nilai pembacaan alat dikurang nilai penyimpangan
Deviation are reduce to the reading for obtaining true reading
- Nilai ketidakpastian didapat dengan tingkat kepercayaan 95% dan faktor Cakupan (k) = 2
The uncertainty is taken at a confidence level 95 % and coverage factor (k) = 2

Dikalibrasi oleh
Calibration by

Sigit Nugroho
Teknisi
Technician

ISSUED FOR INFORMATION



Certificate No. 17668/ENBPAQ
Date: May 9, 2023

Issuing Office:
Jl. Arteri Tol Cibitung No. 1, Cibitung Bekasi 17520, Indonesia
Phone/Fax: +62 21 88321176/021 88321166
Email: cs.cbt@sucofindo.co.id

CERTIFICATE OF CALIBRATION

CLIENT : SBU ASSET DAN ENERGI BARU & TERBARUKAN
ADDRESS : JL. RAYA PASAR MINGGU KAV. 34 JAKARTA SELATAN
INDONESIA

NAME OF EQUIPMENT : COATING THICKNESS GAUGE

SERIAL NO./CODE : VK00401

SERIAL NO./CODE (PROBE) : VK 35151

TYPE/MODEL : F/456B

RANGE/RESOLUTION (μm) : 0 ~ 5360 / 1

MANUFACTURER : ELCOMETER

The Attachment available is an integral part of this certificate.

This calibration result (s) related to the sample (s) submitted only and the certificate cannot be reproduced in any way, except in full context and with the prior approval in writing from Sucofindo Laboratory.

This Certificate/report is issued under our General Terms and Conditions, copy of which is available upon request or may be accessed at www.sucofindo.co.id

Sub Dept. Calibration



Husen Muhajir

CBT38012000187323-003

ISSUED FOR INFORMATION



4468552

SCI - 2007 A

Attachment
To Certificate No. 17668/ENBPAQ
Date: May 9, 2023

Page 2 of 2



Issuing Office:
Phone/Fax: +62 21 88321176/021 88321166
Jl. Arteri Tol Cibitung No. 1, Cibitung Bekasi 17520, Indonesia
Email: cs.cbt@sucofindo.co.id

CERTIFICATE OF CALIBRATION

TESTING CONDITION,

- TEMPERATURE : (18.9 ± 0.1) °C
- HUMIDITY : (50 ± 3) %

STANDARD & EQUIPMENT

: STANDARD FOILS FILM
Serial No. 078349
Certificate of Calibration No. DI.2332.21

: THERMOHYGROMETER
Serial No. DM-04

Certificate of Calibration No. Cal. 008692022

*The measurement is traceable to International System of Units (SI)
through LK-023-IDN & LK-054-IDN*

CALIBRATION METHOD

RECEIVED ON

DATE OF CALIBRATION

: PO/DM/16

: April 26, 2023

: April 28, 2023

RESULTS :

Fe

Range	Equipment Reading	Standard Value	Correction	Uncertainty of Measurement (at 95% CL,k=2)
µm	µm	µm	µm	µm
0 ~ 5360	0	0	0	0.58
	10	12.5	3	1.3
	72	74.0	2	0.61
	256	254.6	-2	1.6
	506	504	-2	1.6
	1032	1025	-7	7.7
	2136	2112	-24	8.5
	4080	3925	-155	5.8



ISSUED FOR INFORMATION



2218352

Baugh & Weedon Ltd
11-16 Burcott Business Park
Burcott Road
Hereford HR4 9JQ
Tel: 01432 267671



CERTIFICATE OF CALIBRATION

Certificate No. BW 2459-4293

Date: 03.01.24

Approved to ISO 9001:2015

Certificate No: AVQ5007104

Customer	Paramuda Karya Mandiri		
Product	Truflux	Serial Number	TF-119

Test Title	Pass	Fail
Calibration	Yes	
Setting the Speed	Yes	
Magnet Bridge Distance from Plate	Yes	
Sensor Head Distance from Plate	Yes	

1. Calibrated (to see defects at 20%, 40%, 60% and 80% of an 8mm calibration plate)
2. Speed set to 500mm/second
3. The Magnet Assembly is set to 3mm distance from the calibration plate surface
4. The Sensor Head is set to 1mm distance from the calibration plate surface.

The above tests results are all within a 10% tolerance and Complies in all respects with its published specification.

The Quality Management standards applied to the manufacture, inspection, and test of the product are in accordance with EN ISO 9001:2015 quality control procedures and all measurements are traceable to national standards.

Item Description	Manufacturer	Serial No.
Calibration Plate	Baugh & Weedon	TP08
Timer	Quantum	TM3

Signature		D Bythell
-----------	--	-----------

ISSUED FOR INFORMATION

Certificate No. 15789/ENBPAP
Date: December 7, 2023



Issuing Office:
Jl. Arteri Tol Cibitung No. 1, Cibitung Bekasi 17520, Indonesia
Phone/Fax: +62 21 88321176/021 88321166
Email: cs.cbt@sucofindo.co.id

CERTIFICATE OF CALIBRATION

CLIENT : SBU ASSET DAN ENERGI BARU & TERBARUKAN
ADDRESS : JL. RAYA PASAR MINGGU KAV. 34 JAKARTA SELATAN INDONESIA
NAME OF EQUIPMENT : EARTH CLAMP TESTER
TYPE / MODEL : 4200
MANUFACTURER : KYORITSU

The Attachment available is an integral part of this certificate.

This calibration result (s) related to the sample (s) submitted only and the certificate cannot be reproduced in any way, except in full context and with the prior approval in writing from Sucofindo Laboratory.

This Certificate/report is issued under our General Terms and Conditions, copy of which is available upon request or may be accessed at www.sucofindo.co.id



Husen Muhajir

380122015034

ISSUED FOR INFORMATION



4302725

CERTIFICATE OF CALIBRATION

TESTING CONDITION,

- TEMPERATURE : (24.8 ± 0.4) °C

- HUMIDITY : (68 ± 2) %

STANDARD & EQUIPMENT

: MULTIPRODUCT CALIBRATOR

Serial No. 3323802

Certificate of Calibration No. S. 2101573

DECADE RESISTOR

Serial No. E1-21206219

Certificate of Calibration No. 20210512-73613

TURN COIL FLUKE 5500A

DIGITAL THERMOHYGROMETER

Serial No. AZ-HT-02-04

Certificate of Calibration No. Cal. 9732021

The measurement is traceable to International System of Units (SI) through

LK-070-IDN & IET Labs, Inc.

CALIBRATION METHOD

: PO/LT/09

RECEIVED ON

: November 16, 2023

DATE OF CALIBRATION

: November 17, 2023

RESULTS :

Ground Loop Resistance

Range	Standard Reading	Equipment Reading	Correction	Uncertainty of measurement
				(at 95% CL,k=2)
Ω	Ω	Ω	Ω	Ω
20	0,100	0,10	0,00	0,0066
	0,501	0,52	-0,02	0,0066
	1,000	1,04	-0,04	0,0066
	5,000	5,04	-0,04	0,0066
	10,000	10,01	-0,01	0,0066
	15,001	15,07	-0,07	0,0096
	19,001	19,08	-0,08	0,0069
	30,002	29,5	0,5	0,058
	100,003	98,4	1,6	0,058
	189,992	186,1	3,9	0,061
1200	499,988	494	6	0,58
	999,99	980	20	5,8

Ground Leakage Current

Range	Standard Reading	Equipment Reading	Correction	Uncertainty of measurement
				(at 95% CL,k=2)
Ampere	Ampere	Ampere	Ampere	Ampere
100 m	95,005 m	95,4 m	-0,4 m	8,5 m
	100,005 m	100 m	0 m	8,5 m
	0,50030	501 m	-1 m	8,5 m
	0,95056	953 m	-2 m	8,5 m
10	2,0012	1,99	0,01	0,010
	4,0021	3,99	0,01	0,010
	6,0066	5,99	0,02	0,010
	8,0039	7,99	0,01	0,010
	9,5111	9,49	0,02	0,010
	30	29,004	0,0	0,48

50 Hz frequency was applied in this test



2131434

ISSUED FOR INFORMATION

