

# LABORATORIUM KALIBRASI PT. HEKSA INSTRUMEN SINERGI

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## SERTIFIKAT KALIBRASI *Calibration Certificate*

|                                                 |                                                              |                                                 |                                 |
|-------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------|
| Nama Alat<br><i>Instrument Name</i>             | : EARTH CLAMP TESTER                                         | No Order<br><i>Order no</i>                     | : 26 HIS 03 0026                |
| Merk<br><i>Manufacturer</i>                     | : KYORITSU                                                   | No Sertifikat<br><i>Certificate no</i>          | : S. 2603 - 0106                |
| Tipe<br><i>Type</i>                             | : KEW 4200                                                   | Tanggal Terima<br><i>Received of Date</i>       | : 05 Maret 2026                 |
| Nomor Seri<br><i>Serial Number</i>              | : 8201405                                                    | Tanggal Kalibrasi<br><i>Date of Calibration</i> | : 06 Maret 2026                 |
| Rentang ukur<br><i>Measuring Range</i>          | : 0 ~ 1500 $\Omega$ / 10 A                                   | Suhu<br><i>Temperature</i>                      | : (23,5 $\pm$ 0,4) $^{\circ}$ C |
| Tempat Kalibrasi<br><i>Venue of calibration</i> | : PT. Heksa Instrumen Sinergi                                | Kelembaban<br><i>Relative Humidity</i>          | : (58 $\pm$ 2) % RH             |
| Pemilik<br><i>Owner</i>                         | : PT Surveyor Indonesia (Persero)                            |                                                 |                                 |
| Alamat<br><i>Address</i>                        | : Jl Gatot Subroto, Kav. 56, Kec. Setiabudi, Jakarta Selatan |                                                 |                                 |

Alat tersebut di atas dikalibrasi terhadap standard PT. Heksa Instrumen Sinergi yang tertelusur ke SI. Pengukuran dilakukan berdasarkan metode yang mengacu ke EURAMET cg-15 dan prosedur internal dengan nomor referensi IK-HIS-LE 13. Hasil kalibrasi diperoleh dari rata - rata setiap pengukuran dan nilai ketidakpastian kalibrasi tertuang dihalaman-halaman lampiran berikutnya pada sertifikat kalibrasi ini. Ketidakpastian kalibrasi ini merupakan ketidakpastian bentangan yang diperoleh dari sumber - sumber kesalahan tipe A dan tipe B sesuai dengan JCGM 100 : 2008 "Guide to the Expression of Uncertainty in Measurement" yang dinyatakan pada tingkat kepercayaan 95 % dengan faktor cakupan  $k = 2$ .

*Instrument stated above has been calibrated against standard of PT. Heksa Instrumen Sinergi traceable to SI. Measurement was carried out based on EURAMET cg-15 and Internal procedure IK-HIS-LE 13. The calibration result is obtained from average for each measurement and the calibration uncertainty value are seen on the following page(s) in this calibration certificate. The calibration uncertainty is expanded uncertainty which referred to type A and B sources of error according to JCGM 100 : 2008 "Guide to the Expression of Uncertainty in Measurement" which is expressed at a 95 % confidence level by the coverage factor  $k = 2$ .*

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Diterbitkan Tanggal , 09 Maret 2026

*Date of Issue*

Disetujui oleh / *Approved by*

  
( Topik Hidayat )  
*Approve Signatory*

Laboratorium Kalibrasi  
PT. Heksa Instrumen Sinergi  
LK-264-IDN

Dilarang memproduksi sertifikat ini dengan cara apapun kecuali dengan proses fotocopy sertifikat secara keseluruhan.  
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Nomor Sertifikat / Certificate No. : S. 2603 - 0106

Bidang Kalibrasi Listrik/Electric Calibration Field

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Nama Alat / Instrumen Name : EARTH CLAMP TESTER

Nomor Seri / Serial Number : 8201405

### HASIL KALIBRASI / CALIBRATION RESULT

#### Resistance

| Pembacaan Standar<br>Standard |   | Pembacaan Alat<br>Reading |   | Koreksi<br>Correction |   | Ketidakpastian<br>Uncertainty |
|-------------------------------|---|---------------------------|---|-----------------------|---|-------------------------------|
| 1,96                          | Ω | 2,21                      | Ω | -0,25                 | Ω | 0,29%                         |
| 3,96                          |   | 4,21                      |   | -0,25                 |   | 0,29%                         |
| 9,96                          |   | 10,20                     |   | -0,24                 |   | 0,29%                         |
| 13,96                         |   | 14,18                     |   | -0,22                 |   | 0,29%                         |
| 17,96                         |   | 18,20                     |   | -0,24                 |   | 0,29%                         |
| 20,4                          | Ω | 20,2                      | Ω | 0,2                   | Ω | 0,16%                         |
| 40,6                          |   | 39,6                      |   | 1,0                   |   | 0,16%                         |
| 101,3                         |   | 98,1                      |   | 3,2                   |   | 0,16%                         |
| 141,7                         |   | 137,2                     |   | 4,5                   |   | 0,16%                         |
| 182,2                         |   | 176,4                     |   | 5,8                   |   | 0,16%                         |
| 152                           | Ω | 146                       | Ω | 6                     | Ω | 0,022%                        |
| 303                           |   | 297                       |   | 6                     |   | 0,022%                        |
| 758                           |   | 730                       |   | 28                    |   | 0,022%                        |
| 1062                          |   | 1020                      |   | 42                    |   | 0,022%                        |

#### AC Current COIL

50 Hz

| Pembacaan Standar<br>Standard |   | Pembacaan Alat<br>Reading |   | Koreksi<br>Correction |   | Ketidakpastian<br>Uncertainty |
|-------------------------------|---|---------------------------|---|-----------------------|---|-------------------------------|
| 0,91                          | A | 1,02                      | A | -0,11                 | A | 0,32%                         |
| 2,94                          |   | 2,98                      |   | -0,04                 |   | 0,32%                         |
| 4,98                          |   | 4,99                      |   | -0,01                 |   | 0,32%                         |
| 7,01                          |   | 6,99                      |   | 0,02                  |   | 0,32%                         |
| 9,05                          |   | 8,96                      |   | 0,09                  |   | 0,32%                         |

#### Catatan / Note

Standar yang digunakan Clamp Type Multimeter Calibrator & Decade Resistor Box Tipe / No Seri : GF6018A & R BOX - 408 / 20190510 & 1318495 dengan nomor sertifikat CCL/20/0021-A/HS & S.21-1156 tertelusur ke Sistem Satuan Internasional (SI) melalui Telkom Indonesia & BSN SNSU

This was calibrated by standard Clamp Type Multimeter Calibrator & Decade Resistor Box Type / No Seri : GF6018A & R BOX - 408 / 20190510 & 1318495 with certificate number CCL/20/0021-A/HS & S.21-1156 traceable to International System of Unit (SI) through Telkom Indonesia & BSN SNSU