A logo with blue and green letters

AI-generated content may be incorrect.

**Laboratorium Standar Nasional Satuan Ukuran LK-070-IDN**

***Laboratory of National Measurement Standards***

**Sertifikat Kalibrasi**

***Calibration Certificate***

Certificate number: {{ certificate }}

Order number: {{ order }}

**Deskripsi Objek yang Dikalibrasi/Diukur**

***Description of object being calibrated or measured***

Jenis alat atau objek : {{ jenis }}

*Type of instrument or object*

Merek/pembuat dan tipe : {{ merek }} {{ tipe }}

*Brand/manufacturer and type*

Identifikasi alat : {{ item\_issuer }}

*Instrument identification*

Nomor seri : {{ seri\_item }}

*Serial number*

Identifikasi lain : {{ id\_lain }}

*Other identification*

**Identitas Pemilik**

***Owner’s identification***

Nama : {{ nama\_cust }}

*Designation*

Alamat : {{ jalan\_cust }} {{ no\_jalan\_cust }}, {{ kota\_cust }}, {{ state\_cust }}

*Address* {{ pos\_cust }}, {{ negara\_cust }}

**Pengesahan**

***Authorization***

Pejabat yang mengesahkan : {{ peran }}

*Authorizing officer*

Nama : {{ nama\_resp }}

*Name* NIP {{ nip }}

Tanggal pengesahan : {{ tgl\_pengesahan }}

*Date of issue (dd/mm/yyyy)*

Jumlah halaman (termasuk halaman ini) :

*Total number of pages including this one*

Dokumen ini disahkan secara elektronik sesuai peraturan yang berlaku dengan sertifikat dari Balai Sertifikasi Elektronik (BsrE) dan tidak memerlukan tanda tangan atau cap. Dokumen asli dapat diperoleh dengan memindai kode QR di samping ini.

*This document is digitally signed. No signature or seal is required. The original document can be obtained by scanning the QR code on the left.*

Kalibrasi atau pengukuran yang dilaporkan dalam sertifikat ini tercakup dalam lingkup akreditasi menurut SNI ISO/IEC 17025 oleh Komite Akreditasi Nasional, kecuali dinyatakan dalam badan sertifikat.

*The calibration or measurement reported in the certificate is covered in the accredication scope according to SNI ISO/IEC 17025 by the National Accredication Committee of Indonesia, unless marked otherwise in the body of certificate.*

Laboratorium Standar Nasional Satuan Ukuran, Badan Standarisasi Nasional (SNSU-BSN)

*Laboratory of National Measurement Standards, Nasional Standardization Agency of Indonesia*

Kompleks Puspiptek, Gedung 420, Setu, Tangerang Selatan, Banten 15314, Indonesia

Telephone +62-21-7560534, +62-21-7560571, Mobile +62-857-8085-7833, Web [www.bsn.go.id](http://www.bsn.go.id), Email nmi@bsn.go.id

A logo with blue and green letters

AI-generated content may be incorrect.No. Sertifikat / *Cert. Number*: {{ certificate }}

No. Order / *Order Number*: {{ order }}

Nama Alat/*Instrument Name* : {{ jenis }}

Pembuat/*Manufacturer* : {{ merek }}

Model/*Model* : {{ tipe }}

No. Seri/*Serial Number* : {{ seri\_item }}

Tanggal Kalibrasi/*Calibration Date* : {{ tgl\_mulai }} – {{ tgl\_akhir }}

Tempat Kalibrasi/*Calibration Place* : {{ tempat }}

**Hasil Kalibrasi/*Calibration Result***

**Kondisi Ruangan/*Environmental Condition***

Suhu/*Temperature* : ({{ suhu }} ± {{ rentang\_suhu }}) ºC

Kelembapan Relatif/*Relative Humidity* : ({{ lembap }} ± {{ rentang\_lembap }}) %RH

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tombol Penyetel X0.01Ω/ *Dial X0.01Ω*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **0.00** | | **Ω** | **10** | | **mA** | **0.029 83** | | **Ω** | **0.029 70** | | **Ω** | **0.000 20** | | **Ω** |
| **0.01** | | **Ω** | **10** | | **mA** | **0.039 41** | | **Ω** | **0.029 27** | | **Ω** | **0.000 55** | | **Ω** |
| **0.02** | | **Ω** | **10** | | **mA** | **0.048 91** | | **Ω** | **0.028 78** | | **Ω** | **0.000 25** | | **Ω** |
| **0.03** | | **Ω** | **10** | | **mA** | **0.058 53** | | **Ω** | **0.028 39** | | **Ω** | **0.000 43** | | **Ω** |
| **0.04** | | **Ω** | **10** | | **mA** | **0.068 58** | | **Ω** | **0.028 45** | | **Ω** | **0.000 32** | | **Ω** |
| **0.05** | | **Ω** | **10** | | **mA** | **0.079 24** | | **Ω** | **0.029 10** | | **Ω** | **0.000 36** | | **Ω** |
| **0.06** | | **Ω** | **10** | | **mA** | **0.087 63** | | **Ω** | **0.027 50** | | **Ω** | **0.000 34** | | **Ω** |
| **0.07** | | **Ω** | **10** | | **mA** | **0.098 21** | | **Ω** | **0.028 07** | | **Ω** | **0.000 44** | | **Ω** |
| **0.08** | | **Ω** | **10** | | **mA** | **0.107 95** | | **Ω** | **0.027 81** | | **Ω** | **0.000 35** | | **Ω** |
| **0.09** | | **Ω** | **10** | | **mA** | **0.117 21** | | **Ω** | **0.027 07** | | **Ω** | **0.000 31** | | **Ω** |
| **0.10** | | **Ω** | **10** | | **mA** | **0.127 35** | | **Ω** | **0.027 22** | | **Ω** | **0.000 41** | | **Ω** |
| **0.11** | | **Ω** | **10** | | **mA** | **0.133 62** | | **Ω** | **0.023 49** | | **Ω** | **0.000 37** | | **Ω** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tombol Penyetel X0.1Ω/ *Dial X0.1Ω*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **0.10** | | **Ω** | **10** | | **mA** | **0.139 09** | | **Ω** | **0.038 95** | | **Ω** | **0.000 27** | | **Ω** |
| **0.20** | | **Ω** | **10** | | **mA** | **0.239 85** | | **Ω** | **0.039 71** | | **Ω** | **0.000 34** | | **Ω** |
| **0.30** | | **Ω** | **10** | | **mA** | **0.340 10** | | **Ω** | **0.039 97** | | **Ω** | **0.000 22** | | **Ω** |
| **0.40** | | **Ω** | **10** | | **mA** | **0.440 33** | | **Ω** | **0.040 20** | | **Ω** | **0.000 36** | | **Ω** |
| **0.50** | | **Ω** | **10** | | **mA** | **0.540 62** | | **Ω** | **0.040 48** | | **Ω** | **0.000 22** | | **Ω** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tombol Penyetel X0.1Ω/ *Dial X0.1Ω*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **0.60** | | **Ω** | **10** | | **mA** | **0.640 57** | | **Ω** | **0.040 43** | | **Ω** | **0.000 24** | | **Ω** |
| **0.70** | | **Ω** | **10** | | **mA** | **0.740 57** | | **Ω** | **0.040 44** | | **Ω** | **0.000 23** | | **Ω** |
| **0.80** | | **Ω** | **10** | | **mA** | **0.841 27** | | **Ω** | **0.041 14** | | **Ω** | **0.000 58** | | **Ω** |
| **0.90** | | **Ω** | **10** | | **mA** | **0.940 53** | | **Ω** | **0.040 40** | | **Ω** | **0.000 17** | | **Ω** |
| **1.00** | | **Ω** | **10** | | **mA** | **1.040 25** | | **Ω** | **0.040 11** | | **Ω** | **0.000 29** | | **Ω** |
| **1.10** | | **Ω** | **10** | | **mA** | **1.136 00** | | **Ω** | **0.035 87** | | **Ω** | **0.000 29** | | **Ω** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tombol Penyetel X1Ω/ *Dial X1Ω*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **1.00** | | **Ω** | **10** | | **mA** | **1.039 51** | | **Ω** | **0.039 38** | | **Ω** | **0.000 16** | | **Ω** |
| **2.00** | | **Ω** | **10** | | **mA** | **2.039 64** | | **Ω** | **0.039 51** | | **Ω** | **0.000 32** | | **Ω** |
| **3.00** | | **Ω** | **10** | | **mA** | **3.040 91** | | **Ω** | **0.040 79** | | **Ω** | **0.000 39** | | **Ω** |
| **4.00** | | **Ω** | **10** | | **mA** | **4.043 23** | | **Ω** | **0.043 10** | | **Ω** | **0.000 34** | | **Ω** |
| **5.00** | | **Ω** | **10** | | **mA** | **5.041 60** | | **Ω** | **0.041 48** | | **Ω** | **0.000 34** | | **Ω** |
| **6.00** | | **Ω** | **10** | | **mA** | **6.044 22** | | **Ω** | **0.044 10** | | **Ω** | **0.000 87** | | **Ω** |
| **7.00** | | **Ω** | **10** | | **mA** | **7.046 69** | | **Ω** | **0.046 57** | | **Ω** | **0.000 56** | | **Ω** |
| **8.00** | | **Ω** | **10** | | **mA** | **8.043 47** | | **Ω** | **0.043 36** | | **Ω** | **0.000 61** | | **Ω** |
| **9.00** | | **Ω** | **10** | | **mA** | **9.042 28** | | **Ω** | **0.042 17** | | **Ω** | **0.000 52** | | **Ω** |
| **10.00** | | **Ω** | **10** | | **mA** | **10.043 94** | | **Ω** | **0.043 83** | | **Ω** | **0.000 48** | | **Ω** |
| **11.00** | | **Ω** | **10** | | **mA** | **11.039 36** | | **Ω** | **0.039 26** | | **Ω** | **0.000 53** | | **Ω** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tombol Penyetel X10Ω/ *Dial X10Ω*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **10.00** | | **Ω** | **1** | | **mA** | **10.0378** | | **Ω** | **0.0375** | | **Ω** | **0.0014** | | **Ω** |
| **20.00** | | **Ω** | **1** | | **mA** | **20.0372** | | **Ω** | **0.0369** | | **Ω** | **0.0018** | | **Ω** |
| **30.00** | | **Ω** | **1** | | **mA** | **30.0369** | | **Ω** | **0.0364** | | **Ω** | **0.0020** | | **Ω** |
| **40.00** | | **Ω** | **1** | | **mA** | **40.0362** | | **Ω** | **0.0356** | | **Ω** | **0.0022** | | **Ω** |
| **50.00** | | **Ω** | **1** | | **mA** | **50.0362** | | **Ω** | **0.0355** | | **Ω** | **0.0025** | | **Ω** |
| **60.00** | | **Ω** | **1** | | **mA** | **60.0353** | | **Ω** | **0.0345** | | **Ω** | **0.0027** | | **Ω** |
| **70.00** | | **Ω** | **1** | | **mA** | **70.0344** | | **Ω** | **0.0335** | | **Ω** | **0.0029** | | **Ω** |
| **80.00** | | **Ω** | **1** | | **mA** | **80.0352** | | **Ω** | **0.0342** | | **Ω** | **0.0031** | | **Ω** |
| **90.00** | | **Ω** | **1** | | **mA** | **90.0335** | | **Ω** | **0.0324** | | **Ω** | **0.0034** | | **Ω** |
| **100.00** | | **Ω** | **1** | | **mA** | **100.0337** | | **Ω** | **0.0325** | | **Ω** | **0.0036** | | **Ω** |
| **110.00** | | **Ω** | **1** | | **mA** | **110.0302** | | **Ω** | **0.0289** | | **Ω** | **0.0038** | | **Ω** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tombol Penyetel X100Ω/ *Dial X100Ω*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **100.00** | | **Ω** | **1** | | **mA** | **100.973** | | **Ω** | **0.971** | | **Ω** | **0.003** | | **Ω** |
| **200.00** | | **Ω** | **1** | | **mA** | **200.989** | | **Ω** | **0.986** | | **Ω** | **0.009** | | **Ω** |
| **300.00** | | **Ω** | **1** | | **mA** | **300.927** | | **Ω** | **0.922** | | **Ω** | **0.010** | | **Ω** |
| **400.00** | | **Ω** | **1** | | **mA** | **400.931** | | **Ω** | **0.926** | | **Ω** | **0.011** | | **Ω** |
| **500.00** | | **Ω** | **1** | | **mA** | **500.943** | | **Ω** | **0.936** | | **Ω** | **0.013** | | **Ω** |
| **600.00** | | **Ω** | **1** | | **mA** | **600.951** | | **Ω** | **0.943** | | **Ω** | **0.014** | | **Ω** |
| **700.00** | | **Ω** | **1** | | **mA** | **700.962** | | **Ω** | **0.953** | | **Ω** | **0.015** | | **Ω** |
| **800.00** | | **Ω** | **1** | | **mA** | **800.964** | | **Ω** | **0.953** | | **Ω** | **0.017** | | **Ω** |
| **900.00** | | **Ω** | **1** | | **mA** | **900.975** | | **Ω** | **0.963** | | **Ω** | **0.019** | | **Ω** |
| **1000.00** | | **Ω** | **1** | | **mA** | **1000.986** | | **Ω** | **0.973** | | **Ω** | **0.020** | | **Ω** |
| **1100.00** | | **Ω** | **1** | | **mA** | **1100.989** | | **Ω** | **0.974** | | **Ω** | **0.022** | | **Ω** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tombol Penyetel X1kΩ/ *Dial X1kΩ*** | | | | | |  |  |  |  |  |  |  |  |  |
| **Penunjukan Alat** | | | **Arus Uji** | | | **Pembacaan Standar** | | | **Koreksi** | | | **Ketidakpastian** | | |
| ***Instrument Indication*** | | | ***Test Current*** | | | ***Standard Reading*** | | | ***Correction*** | | | ***Uncertainty*** | | |
| **1.00** | | **kΩ** | **0.1** | | **mA** | **1.001 42** | | **kΩ** | **0.001 41** | | **kΩ** | **0.000 03** | | **kΩ** |
| **2.00** | | **kΩ** | **0.1** | | **mA** | **2.002 01** | | **kΩ** | **0.001 98** | | **kΩ** | **0.000 07** | | **kΩ** |
| **3.00** | | **kΩ** | **0.1** | | **mA** | **3.002 45** | | **kΩ** | **0.002 41** | | **kΩ** | **0.000 09** | | **kΩ** |
| **4.00** | | **kΩ** | **0.1** | | **mA** | **4.003 16** | | **kΩ** | **0.003 12** | | **kΩ** | **0.000 10** | | **kΩ** |
| **5.00** | | **kΩ** | **0.1** | | **mA** | **5.003 57** | | **kΩ** | **0.003 51** | | **kΩ** | **0.000 12** | | **kΩ** |
| **6.00** | | **kΩ** | **0.1** | | **mA** | **6.003 76** | | **kΩ** | **0.003 69** | | **kΩ** | **0.000 13** | | **kΩ** |
| **7.00** | | **kΩ** | **0.1** | | **mA** | **7.004 31** | | **kΩ** | **0.004 23** | | **kΩ** | **0.000 15** | | **kΩ** |
| **8.00** | | **kΩ** | **0.1** | | **mA** | **8.004 60** | | **kΩ** | **0.004 50** | | **kΩ** | **0.000 16** | | **kΩ** |
| **9.00** | | **kΩ** | **0.1** | | **mA** | **9.005 00** | | **kΩ** | **0.004 90** | | **kΩ** | **0.000 18** | | **kΩ** |
| **10.00** | | **kΩ** | **0.1** | | **mA** | **10.005 42** | | **kΩ** | **0.005 30** | | **kΩ** | **0.000 20** | | **kΩ** |
| **11.00** | | **kΩ** | **0.1** | | **mA** | **11.006 03** | | **kΩ** | **0.005 90** | | **kΩ** | **0.000 22** | | **kΩ** |

**Catatan/*Notes***

{{ statements }}

Dikalibrasi oleh/*Calibrated by* : {{ pelaksana }}

(Pelaksana/*Technician*)

Diperiksa oleh/*Checked by* : {{ penyelia }}

(Penyelia/*Supervisor*)

: {{ kepala\_lab }}

({{ jabatan\_kepala\_lab }})

**==== Akhir dari Sertifikat/*End of Certificate* ====**