

**INFORMASI LAYANAN KALIBRASI PUSLIT METROLOGI - LIPI
BULAN JULI 2017**

Diberitahukan kepada pelanggan jasa layanan Kalibrasi Puslit Metrologi-LIPI bahwa layanan Kalibrasi yang akan dilakukan untuk bulan **Juli 2017** adalah sesuai data terlampir :

| No. | Nama Alat | Spesifikasi / Rentang Ukur |
|--|--|--|
| SUBBID : Metrologi Massa | | |
| 1. | Pressure Gauge | - |
| 2. | Load Cell | 100 N s/d 1 MN |
| 3. | Proving Ring | 100 N s/d 1 MN |
| 4. | Universal Testing Machine / UTM | 10 kN s/d 1 MN |
| 5. | Flowmeter Media Air | (4 ~ 1300) L / min |
| 6. | Anak Timbangan E2, F1 | 2 kg ~ 5 kg |
| 7. | Anak Timbangan E2, F1 | > 10 kg |
| 8. | Timbangan Elektronik | - |
| 9. | DWT - OLI | s/d 2000 bar , akurasi < 0.02% (spt Budenberg, dan pressurement) |
| 10. | Hidrometer | (600 ~ 2000) kg/m ³ |
| 11. | Gas Flowmeter | 250 L / min ~ 1200 L / min |
| 12. | Torque Measuring Devices | ~ 2000 N.m |
| SUBBID : Metrologi Radiometri Fotometri | | |
| No. | Nama Alat | Spesifikasi / Rentang Ukur |
| 1. | Luxmeter / Illuminance Meter | $E_v = 0 - 1000$ lux |
| 2. | Black Light Meter / UV Meter / Radiometer | $\lambda = 365$ nm, $E_e = 0 - 5000$ μ W |
| 3. | Color Analyzer / Color Meter / Color Checker | $L = 3 - 275$ cd/m ² , $X = 0,281$; $Y = 0,311$ |
| 4. | Color Filter / Color Disk | $\lambda =$ Visible |
| 5. | Color Sample / White Color Standar | Sumber D65 dan C |
| 6. | Panjang Gelombang Sumber Cahaya | $\lambda =$ Visible |
| 7. | Daya Laser | $P_{max} = 3$ mW |
| 8. | Photometer / Iph Meter | $E_{max} = 300$ lux |
| 9. | Lampu Intensitas | $I = 60.000$ cd |
| 10. | Lampu Darurat / Phosphoresence | $L = 0 - 3,4$ cd/m ² |
| 11. | Lampu (optional : Distribusi Intensitas) | Max daya 200 wa |
| 12. | Filter | $\lambda : 250 - 800$ nm, $\%T : 0 - 100$; Abs : 0 - 3; SRE |
| 13. | Gloss / Kilap | $\lambda : 20^\circ, 60^\circ, 75^\circ$ |
| 14. | Spektrodensitometer | VCMY |

| | | |
|-----|---------------------|------------------------------|
| 15. | Densitometer | D : 0,41 – 2.05 |
| 16. | Spektrofotometer | λ % T |
| 17. | Lightbox | T : 3800 – 5500 K |
| 18. | Chroma Meter | Yxy |
| 19. | Luminance Meter | L = 1062 cd / m ² |
| 20. | Lovibond Tintometer | Skalawarna |
| 21. | Optical Power Meter | Pmax = 5 mW |

SUBBID : Metrologi Panjang

| No. | Nama Alat | Spesifikasi / Rentang Ukur |
|-----|--------------------|----------------------------|
| 1. | Calibration Tester | – |
| 2. | Optical Flat | – |
| 3. | Optical Parallel | – |
| 4. | Bevel Protactor | – |
| 5. | Roundness | – |
| 6. | Roughness | – |
| 7. | ULM | 0 ~ 100 mm |

SUBBID : Metrologi Kelistrikan

| No. | Nama Alat | Spesifikasi / Rentang Ukur |
|---|--------------------------|----------------------------|
| Standar V-I-R | | |
| 1. | Multifunction Calibrator | – |
| 2. | Digital Multimeter | up to 5 ½ digit |
| 3. | Digital Multimeter | above 6 ½ digit |
| Standar Resistansi, Induktansi dan Kapasitansi | | |
| 1. | Standard Resistor | – |
| 2. | Standard Capacitor | – |
| 3. | Standard Inductor | – |
| 4. | LCR Meter | – |
| Standar Daya & Energi | | |
| 1. | Digital Power Meter | – |
| 2. | Digital Energy Meter | – |
| 3. | Earth Tester | – |
| 4. | Clamp Meter | – |

SUBBID : Metrologi Waktu and Frekuensi

| No. | Nama Alat | Spesifikasi / Rentang Ukur |
|-----|------------------------------|----------------------------|
| 1. | Frequency Counter | 10 Hz ~ 3.2 GHz |
| 2. | Frequency Source | 5 MHz, 10 MHz |
| 3. | Synthesized Signal Generator | 10 Hz ~ 1300 MHz |
| 4. | Stopwatch | 60 detik |
| 5. | Stroboscope | 60 ~ 20.000 rpm |
| 6. | Tachometer | 30 ~ 99.000 rpm |
| 7. | Spectrum Analyzer | 10 Hz ~ 1300 MHz |
| 8. | Multiproduc Calibrator | 10 Hz ~ 2 MHz |

SUBBID : Metrologi Suhu

| No. | Nama Alat | Spesifikasi / Rentang Ukur |
|-----|---|--------------------------------------|
| 1. | Termometer Tahanan Platina (PRT, Pt -100) dengan perbandingan | -40 ~ 500 °C |
| 2. | Termometer Sensor with Indicator/ Termometer Digital | -40 ~ 500 °C |
| 3. | Simulasi Termokopel | -40 ~ 1500 °C |
| 4. | Termokopel Wire | -40 ~ 500 °C |
| 5. | Termometer Gelas | -40 ~ 450 °C |
| 6. | Thermohygrometer | 10 ~ 40 °C 40 ~ 90% RH, U > 3% RH |
| 7. | Probe Higrometer | 15 ~ 95 % RH @ 20 °C & 30 °C |
| 8. | Dew Point Meter | -20 ~ 65 °C |
| 9. | Termometer Radiasi | 50 ~ 500 °C |
| 10. | Variable Blackbody | 50 ~ 500 °C |

SUBBID : Metrologi Akustik & Vibrasi

| No. | Nama Alat | Spesifikasi / Rentang Ukur |
|-----|--|--------------------------------|
| 1. | Accelerometer | 20 Hz ~ 5 kHz |
| 2. | Sound Calibrator | 94 dB ~ 114 dB @ 1kHz & 250 Hz |
| 3. | Audio Meter | 25 dB ~ 120 dB |
| 4. | Loudspeaker | 20 Hz ~ 16 kHz |
| 5. | Absorption Coef (Koefisien Absorpsi Bahan) | 0 ~ 100% ABS |
| 6. | Microphone 0.5 inch | 31.5 Hz ~ 25 kHz |
| 7. | Microphone 1 inch | 63 Hz ~ 8 kHz |
| 8. | Noise Level (Tingkat Kebisingan) | 25 ~ 130 dB |
| 9. | Pistonphone | 124 dB @ 250 Hz |
| 10. | Sound Level Meter | 20 ~ 140 dB |
| 11. | Sound Power | 100 Hz ~ 10 kHz |

| | | |
|------------|-----------------------|--------------|
| 12. | Vibration Meter | 0.3 g ~ 15 g |
| 13. | Vibration Test | 0.3 g ~ 15 g |
| 14. | Vibration Test System | 0.3 g ~ 15 g |

Bagi yang berminat mohon mengisi Form Pendaftaran yang ada di [Info Layanan](#) → [Prosedur Pendaftaran Kalibrasi](#). Kami akan menginformasikan pendaftaran yang dapat kami layani.