

## DAFTAR PUSTAKA

- [1] *Badan Pusat Statistik (BPS). (2022). Rata-rata Konsumsi Perkapita Seminggu Menurut Kelompok Daging Per Kabupaten/Kota (Satuan Komoditas) [Online]. Available: <https://www.bps.go.id/indicator/5/2097/1/rata-rata-konsumsi-perkapita-seminggu-menurut-kelompok-daging-per-kabupaten-kota.html>*
- [2] *Badan Pusat Statistik (BPS). (2022). Produksi Daging Ayam Ras Pedaging menurut Provinsi (Ton) [Online]. Available: <https://www.bps.go.id/indicator/24/488/1/produksi-daging-ayam-ras-pedaging-menurut-provinsi.html>*
- [3] R. Darmawan, A. Astrid, R. Kencanaputra, L. Ermansyah, R. A. Nurrohmah, E. Respati, Suyati, and S. Supartinah, “Analisis Penawaran dan Permintaan Bulanan Daging Ayam Ras Pedaging,” Kementerian pertanian, Jakarta Selatan, Indonesia, 2021.
- [4] Y. Wu, et. al, “Light Regimen on Health and Growth of Broilers: an Update Review,” *Poultry Science*, Vol. 1, No.1, pp.1-6.
- [5] *Badan Pusat Statistik (BPS). (2022). Rata-rata Suhu dan Kelembapan Udara Menurut bulan ©, 2017-2020 [Online]. Available: <https://bonekab.bps.go.id/indicator/151/77/1/rata-rata-suhu-dan-kelembapan-udara-menurut-bulan.html>*
- [6] M. H. Tamzil, “Stres Panas pada unggas: Metabolisme, Akibat dan Upaya Penanggulangannya,” *WARTAZOA*, Vol. 24, No. 2, pp.57-66, Mei. 2014.
- [7] U. Sahan, “Effects of Cold Stress on Broiler Performance and Asctes Susceptibility,” *Asian Australasian Journal of Animal Science*, Vol. 19, No. 5, pp.734-738, January. 2006.
- [8] U. Ahsan, et al., “Effect of different environmental temperature and relative humidity on phycological response of fast and slow growing broiler chickens,” *Poulrty Science*, Vol. 88, No. 7, pp.1459-1468. 2009.
- [9] A. A. Masriwilaga, T. A. Jabar, etc, “Sistem Monitoring Peternakan Ayam Broiler Bebasis *Internet of Things*,” *J. TELEKONTRAN*, Vol. 7, No.1, pp. 1-13, April. 2019.
- [10] Makmur, “Perancangan Prototipe Kandang Ayam *Broiler Closed House* untuk Kontrol Suhu dan Kelembapan Berbasis Arduino Mega 2560,” Undergraduated Thesis, Jurusan Teknik Elektro, Fakultas Teknik, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia, 2018.



- [11] A. A. Masriwilaga, T. A. Jabar, etc, “Sistem Monitoring Peternakan Ayam Broiler Berbasis *Internet of Things*,” *J. TELEKONTRAN*, Vol. 7, No.1, pp. 1-13, April. 2019.
- [12] R. A. Anggraeni, “Perancangan Pengatur Suhu Otomatis Pada *Prototype Smart Cage* Untuk DOC (*Day Old Chick*) Ayam Broiler Berbasis PID,” Undergraduated Thesis, Jurusan Teknik Elektro, Fakultas Teknik, Universitas Negeri Semarang, Semarang, Indonesia, 2019.
- [13] J. Jamal and Thamrin, “Sistem Kontrol Kandang Ayam *Closed House* Berbasis *Internet of Things*,” *Jurnal Vocational Teknik Elektronika dan Informatika*, Vol. 9, No. 3, pp. 79-90, September, 2021.
- [14] G. Santoso *et al.*, “Rancang Bangun Sistem Monitoring Suhu dan Kelembapan Pada Ruang Server Berbasis IoT (*Internet Of Things*),” *J. Teknol. Technoscience*, Vol. 11, No. 2, pp.186-193, 2019.  
<https://doi.org/10.34151/technoscience.v11i2.1248>
- [15] Sri Muryani and S. Sumariyah, “Aplikasi Modul Sensor Cahaya GY-302 BH1750 dan Sensor Ultrasonik HC-SR04 Pada Eksperimen Fotometer Berbasis Mikrokontroler Arduino Uno,” *Berk. Fis.*, Vol. 23, No. 4, pp.142-150, 2020.
- [16] L. Zhao, S. Qu, and W. Zhang, “Design of multi-channel data collector for highway tunnel lighting based on STM32 and Modbus protocol,” *Optik (Stuttg.)*, vol.213, February, p.164-388, 2020.  
<https://doi.org/10.1016/j.ijleo.2020.164388>
- [17] G. Coulby, A.K. Clear, O.Jones, and A. Godfrey, “Low-cost, multimodal environmental monitoring based on the Internet of Things,” *Build, Environ.*, vol.203, March, p.2-13, 2021. <https://doi.org/10.1016/j.buildenv.2021.108014>
- [18] J.T. Devaraju, K. R. Suhas, H. K. Mohana, and V. A. Patil, “Wireless Portable Microcontroller based Weather Monitoring Station,” *J. Int. Meas. Confed.*, vol. 76, pp. 189-200, 2015, <https://doi.org/10.1016/j.measurement.2015.08.027>
- [19] A. K. Perdana and I. Hasyim Rosma, “Analisis Kalibrasi Sensor BH1750 Untuk Mengukur Radiasi Matahari di Pekanbaru,” 2018,  
<https://ejournal.unp.ac.id/students/index.php/fis/issue/view/686>
- [20] A. Herawan and A. Fauzi, “Detektor Sensor SHT11 Sebagai Monitoring Suhu dan Kelembapan Ruang Berbasis Mikrokontroler ATmega16 di *Smart AVR Systems*,” *Setrum Sist. Kendali-Tenaga-Elektronika-Telekomunikasi-Komputer*, vol. 7, no. 1, p.36, 2018,
- [21] P. Gong and H. Jhonston, “Thermal Physics,” *Phys. Today*, Vol. 23, no.2, pp. 70-71, 1970, doi: 10.1063/1.3021975
- [22] P. O. Riley, “Temperature,” *The Editors of Encyclopaedia Britannica*, 2004.



- [23] Rotronic, “Part One : Theory Humidity,” 2014.
- [24] Alma E. F. Taylor, *Illumination Fundamentals*. New York: Rensselaer Polytechnic Institute, 2006.
- [25] *Product Reference Manual Arduino Uno R3*, Arduino Uno R3 Datasheet
- [26] *ATMega328P Datasheet*, Atmel, Amerika Serikat, 2015, pp.1-293.
- [27] *Digital-Output Relative Humidity & Temperature Sensor/Module DHT22 (DHT22 also named as AM2302)*, Aosong Electronics Co., Ltd, Guangzhou, China, pp.1-10
- [28] *Digital 16bit Serial Output Type Ambient Light Sensor IC (BH1750)*, ROHM Semiconductor, Kyoto, Jepang, pp.1-17
- [29] techZeero. *DS3231 RTC Module* [Online]. Available: <https://techzeero.com/sensors-modules/ds3231-rtc-module/> [Accessed: 27<sup>th</sup> of August 2023)
- [30] *DS3231: Extremely Accurate I<sup>2</sup>C-Integrated RTC/TCXO/Crystal*, maxim integrated, San Jose, California, Amerika Serikat, pp.1-15
- [31] *Micro SD Card Adapter Module Datasheet*, Distrelec, Zurich, Swiss, pp.1-2
- [32] H. Santoso and T. Sudaryani, *Pembesaran Ayam Pedaging di Kandang Panggung Terbuka*. Jakarta: Penebar Swadaya, 2011.
- [33] R. Fadilah and A. Polana, *Aneka Penyakit Pada Ayam dan Cara Mengatasinya*. Jakarta: Agromedia Pustaka, 2004.
- [34] E. J. Christopher, Harianto, and Bagus, *28 Hari Panen Ayam Broiler*. Jakarta: Agromedia Pustaka, 2011.
- [35] Muwarni, *Ayam Broiler*. Semarang: Widya Karya, 2010.
- [36] *Management Guide: Alternative Production System*, A Hendrix Genetics Company, Boxmeer, Netherland, 2014, pp.1-40
- [37] M. Cable, “Calibration: A Technician’s Guide”. United State of America: ISA-The Instrumentation, System, and Automation Society, 2005.
- [38] International Organization for Standardization, “Standar Internasional ISO 9001: 2015 Sistem Manajemen Mutu-Persyaratan,” *J. Sipil Statik*, 2015.
- [39] P. Handbook, “NIST Handbook 143,” *Notes*, march, 2003.
- [40] International Organization for Standardization, “ISO/CIE 19476:2014 Characterization of the performance of illuminance meters and luminance meters,” 2014.

