



MERTANI-EWS

Perangkat Keras – Unit Sirene Peringatan Dini Banjir



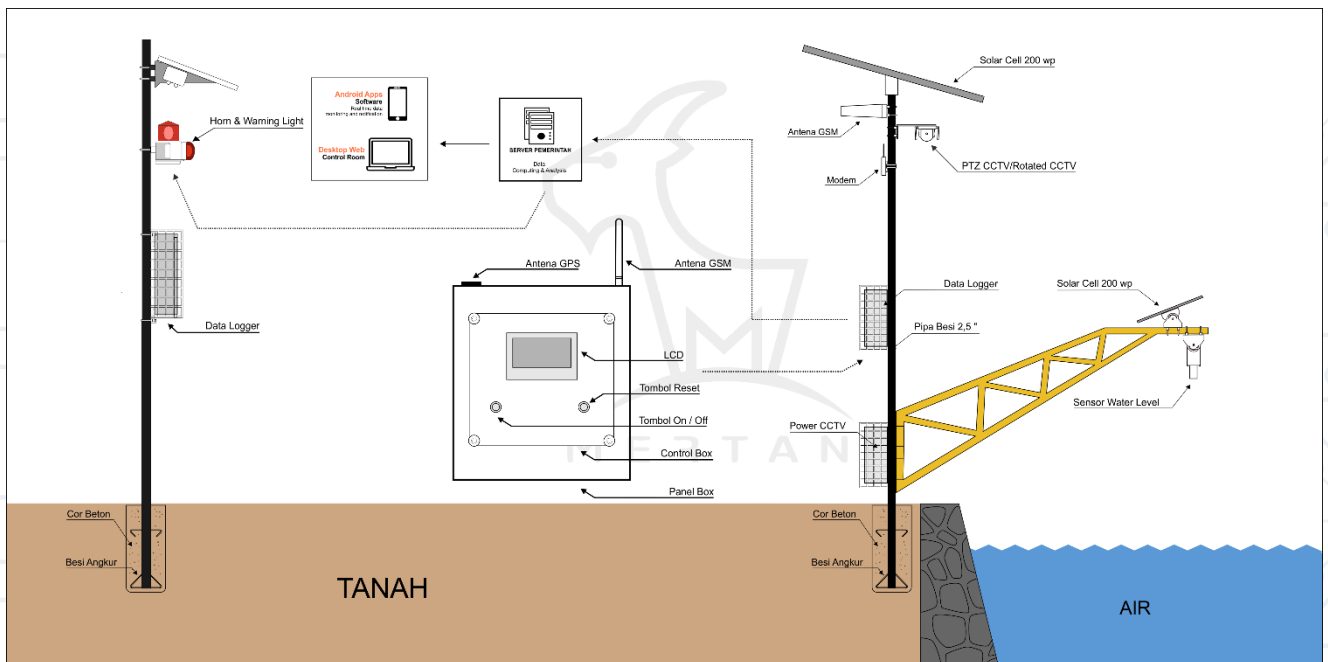
GET YOUR BETTER SOLUTION

MERTANI-EWS

Unit Sirene Peringatan Dini Banjir

Merupakan alat untuk melakukan peringatan terhadap bencana banjir secara online (dalam jaringan), realtime (terus-menerus), dan akurat. Garansi selama 1 tahun dan jaminan ketersediaan suku cadang selama 5 tahun.

Terdiri dari Mertani Data Logger yang sudah berbasis Internet of Things (IoT) dan dapat terhubung dengan berbagai jenis sensor sekaligus. Horn dan warning light sebagai tanda peringatan terhadap bencana banjir yang berintegrasi dengan sistem sensor tinggi muka air. Dashboard PC and Android yang dapat digunakan untuk menampilkan data, melakukan analisis sederhana seperti mencari nilai maksimum, nilai minimum, mengurutkan berdasarkan waktu tertentu, menampilkan grafik visual, dan melakukan pengunduhan data



Penerapan

- Dapat diandalkan untuk melakukan peringatan bencana banjir secara online dan terus-menerus,
- Peringatan bencana banjir dapat dilakukan dimanapun dan kapanpun

SPESIFIKASI

Data Logger



- Automatic data transmission using internet connection Modul WiFi Equivalent or Higher (2G/4G, WiFi, BLE, LoRa, etc), Connected to Monitoring System and displayed via PC and Smartphone)
- Build in Global Positioning System (GPS)/Global Navigation Satellite System (GNSS) Module
- Support HTTP REST API and MQTT TCP/IP
- AVR RISC-Based Microcontroller Equivalent or higher (MCU Arm Cortex-M4 based Ultra Low Power, Clock Speed 120 MHz, RAM 320-KB, Flash Memory 1-MB full)
- SMD single on-board using Industrial PCB 6 layer
- Sensor input up to 10 sensors, input voltage 4.1V
- Operating voltage 2.7 – 5.5 VDC, logging current 250 mA average, and set up device using USB serial
- Built in DC regulator output 5 VDC and 5 VDC for power supply
- Integrated web server for data management and data display
- Average operating temperature -40 to +85°C
- Dimensions 120 x 120 x 61 mm weatherproof
- Communication port 3x 7-pins content of serial data RS485, I2C, digital pulse sensor, and one wire (Connect up to 12 Sensor Input)
- Optional baud rates 9600 - 115200 bps
- Data measurement format output imported to Text / CSV Equivalent or Higher (Excel and CSV)
- LCD Display 16 x 2 Character Equivalent or Higher (HMI LCD Display Colored TFT Industrial with Touchscreen)
- Using industrial Micro SD Card up to 16 GB for data backup storage
- Built-in 10.000 mAH battery and dedicated IC RTC Equivalent or Higher (LSE-Crystal Real Time Clock)
- Fixed interval measurements sampling and can be programmed from 10 minute to 1 day (normally per hour), remote
- by software dashboard
- Include 1x External GSM Antenna and 1x GPS Antenna
- Input Voltage (from solar panel) 4.1VDC (SCH 21V)
- IP68 Panel Box Enclosure (PxLxT) 500x400x200 (mm), Outdoor use and extended period use to prevent dew
- condensation water
- Weather-Resistant Enclosure, Cable glands, Ventilation Louver, Plastic Mounting Plate, Good heat resistance -4°F
- (-20° C) to 176° F (80° C)
- Embedded system firmware for water level measurement with tipping bucket sensor

SPESIFIKASI

Horn + Warning Light

- Tegangan kerja 12VDC, dengan suara yang bisa diganti/disesuaikan
- Menyediakan media penyimpanan suara



Controller Unit Sirene

- Network : 4G/LTE
- Support Modbus TCP/RTU, SNMP, FTP and MQTT protocol

Tiang

- Pipa Galvanis 4 inch panjang 4 meter dilengkapi dudukan horn dan warning light dan solar panel
- Angkur tower 16mm, pembesian+cakar ayam, 600x600x250mm.

Kerangkeng Pengaman Box Panel

- Besi beton 8mm
- Besi siku 3x3cm dilengkapi kunci
- Ukuran 50x70x30cm

Box Panel

- Material ABS IP66
- Dimensi 40x60x23cm

SPESIFIKASI

Solar Panel

- Solar panel 20 WP~100WP/ Maximum Power (Pmax) 20W, Current at Pmax (Imp) 1.11 A/sheet
- Type Cell Poly-crystalline/Mono-crystalline, Voltage at Pmax (Vmp) 18 V/sheet
- Short circuit current (Isc 1.24 A/sheet, Opencircuit voltage (Voc) 21.24 V/sheet, Solar cell mounting bracket included
- MPPT 600-kHz NMOS-NMOS Synchronous Buck Li-ion Chemistries 4.1V with Thermal Shutdown
- Rated Max Power 100 W
- Daya Max.Tegangan - Vmp 18.2V, Daya Max. Imp 5.5A



Solar Charger Control

- Tipe PWM 10A

Battery

- Up to 50.000 mAh
- Deep Cycle Li-ion Battery 12 Volt / 18Ah Equivalent or Higher (3.7 Volt / 31~50 Ah)
- Aki 12V, 100Ah tipe VRLA



Data Collection Method

