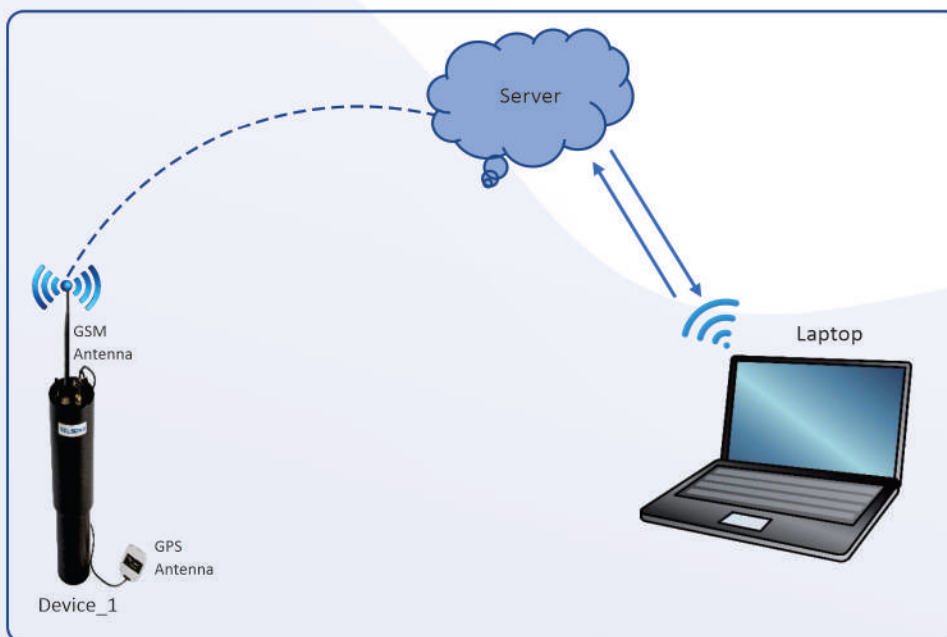


GSM-Based DAS

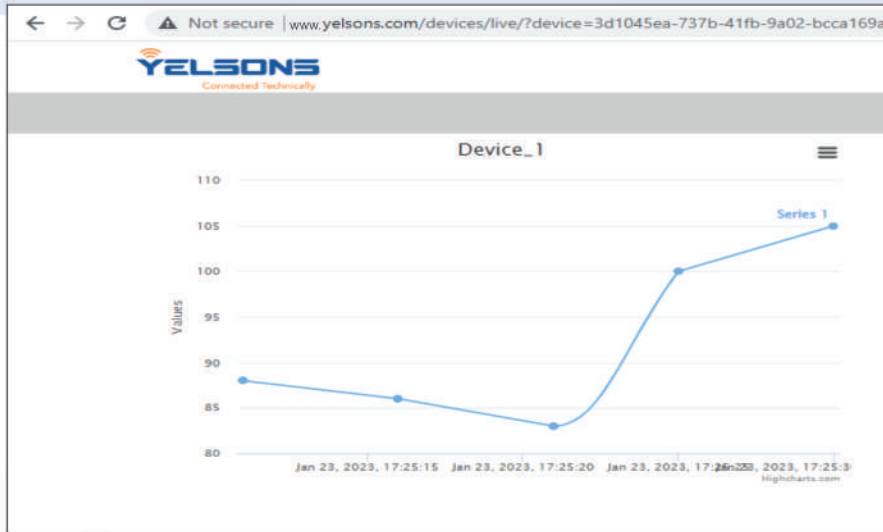
The GSM-Based DAS uses an SiPM detector. The SiPM detector works on current-to-voltage converter topology. The data can be monitored remotely through the application software.

Features:

- Highly anodized aluminium enclosure
- RoHS Compliant
- The device data can be observed remotely sent through GSM
- Data can be monitored and stored using web application software
- Current surge protection
- Available with PMT detector. (The detector specification will vary according to the detector used)



- The SiPM detector in GSM based SCA detects the data from surrounding environment.
- The data is then converted into signals using internal electronics.
- Using GSM antenna this data is then sent to the server and be observed or analysed using web application.
- Log in into the web application by entering the username and password. Select the device and click on live data tab in the web application.



GSM-Based DAS Specification:

| Parameters | Value |
|-----------------------|------------------------|
| Power Supply Voltage | 11.1VDC (LiPO Battery) |
| Power Supply Current | 300mA |
| Operating temperature | -20°C to +50°C |
| Pulse width | 1.6us |
| Pulse count | 10ms |
| Communication | GSM |
| Detector type | SiPM |

SiPM Detector Specification:

| Performance specification | |
|---|---|
| Scintillator (SiPM) | Nal (Tl) |
| Typical resolution (FWHM for ¹³⁷ Cs) | 7.5% |
| Higher Photon detection efficiency | Yes (50% to 60%) |
| Magnetic field sensitivity | No (Insensitive to the magnetic field) |
| Ability to withstand Mechanical shocks | Yes (up to 3G) |
| Temperature gain compensation | Yes |
| Measurement Data | |
| Output type | Analog Output 1) Current to voltage Preamplifier |
| Topology | Current to voltage converter topology |
| Environmental Conditions | |
| Suitable for continuous outdoor use | Yes |
| Operating Temperature | -20°C to +50°C |
| Protection Class | IP-65 |
| Operating Parameters | |
| Power Supply | 5V DC |
| Power Required | 60mW @5V DC |
| Current | 12mA |

Antenna Specification:

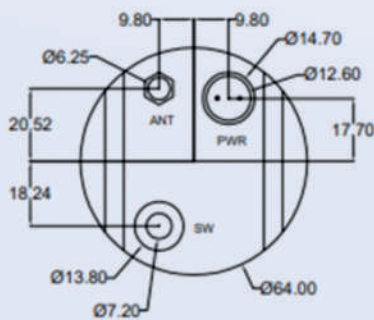
| GSM Antenna | |
|-------------|--------------|
| Parameters | Values |
| Frequency | 2.4GHz |
| Gain | 6dBi |
| Voltage | 3VDC to 5VDC |
| GPS Antenna | |
| Frequency | 1575.42MHz |
| Voltage | 3VDC to 5VDC |

Battery Charger Specification:

| Parameters | Values |
|---|----------|
| Voltage | 12.6V DC |
| Current | 1A |
| (Use the battery charger that is specially designed for LiPo batteries. Use of other battery chargers may damage the battery) | |

Mechanical Specification:

All the dimensions are in mm.




Product improvement is a continuous process. Please contact the Yelsons marketing team for the latest updates.

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