

Site Pro-Tech



Dust · Sound · Vibration · Shock · Vision

AEGIS

Intelligent Telemetry For
ENVIRONMENTAL IMPACTS





AEGIS

TO SHIELD OR PROTECT

Advanced Environmental Gauging Information System

Key Benefits:

- Simple Installation •
- Low Maintenance •
- Optimum Comprehensive Site Coverage •
 - Total Remote Management •
 - Class Leading Data Ranges •
- Comprehensive Programmable Sampling Frequency •
- Multiple Options For Accurate Site Control •

Civil Engineering, Industry and Transportation have inherent environmental impacts; these can include sound, shock, vibration and air-borne particulate. The need to control and limit such potentially harmful effects is the natural desire of the responsible contractor and his client, or responsible body, in order to meet Health and Safety criteria, as well as achieving readiness for proposed and more stringent legislation.

Achieving this aim requires the ability to measure and continuously monitor site conditions by the establishment of a standard or 'norm' prior to the commencement of site operations, the values consequent to operations may be determined in order that potentially harmful causes and effects may be obviated.

The AEGIS range of continuous, monitoring devices has been designed with the needs for effective environmental protection at the core of its design philosophy. The system provides secure, documentary evidence in the form of key statistical data, wirelessly transmitted. The option is presented to the user to further transmit the data to monitors placed according to his needs. These may be on the originating site, or with the contractor's own client; the choice is for the customer to decide.

Also, to meet the contractor's specific requirement the ability to present data to demonstrate conformance with contractual or legal requirements in a simple yet effective 'dashboard' format with active non-compliance alarms is a major benefit of the system.

In addition to the data gathering capabilities, it is also possible to specify the addition of a high definition camera. This option offers the opportunity for remote visual appraisal for initial monitoring or investigation of any significant data value fluctuation.

Protection from the possibilities of data interruption is provided thanks to the AEGIS unit's flash memory preventing data loss.

The robust, yet compact design combined with a 'plug and play' set up is the key to the usability of AEGIS system.

The design has been completed with the aim of a minimum maintenance requirement. A clear example of this is to be found in the Particulate Measurement function. Unlike other designs there is no requirement for constant filter changes thanks to its use of a virtual sensing zone. Rather than the 'sparse' sampling employed by some units the user is presented with the opportunity for a sampling frequency to suit his needs.

Options:

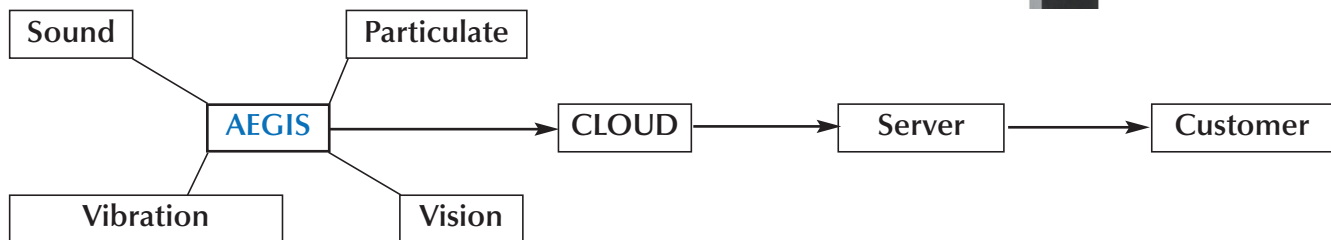
Camera: 1080P Mega Pixel. 6 Array Led, IR Distance 80 M. Motion Detection with email. Pan 355 degrees, tilt 90 degrees.

Post: T6082 Al, powder coated (jet black to Ral9005). Lockable Base Unit is 800mm high x 300mm square on a 500mm square x 10mm thick base plate. Standard post length is 3M, with 2, 4, 5 and 6 Metre sizes as added options for accurate site coverage.

Visual Warning: Traffic Light indicator as an additional alarm for site operatives.

Lamp: Lighting is available, if required.

Satellite Dish: To increase dB gain in areas of poor reception.



AEGIS Unit

Key components are as follows, with the option to omit individual items as required.

Vibration and Acceleration 18G Data Logger with 3 Axis and measuring range of +/- 18G and adjustable logging interval of 5ms to 12h.

Sound Level Data Logger with sound level range of 30 to 130dB. Frequency range of 31.5Hz to 8kHz and SPL resolution of 0.01dB Class 2.

Optical Particle Counter measures PM1, PM2.5 and PM10 in addition to measuring particle size with distributions in real time. Sampling intervals of 1.4 to 10 seconds is possible. A Typical Total Flow Rate is 1.2 L/min with a Typical Sample Flow Rate of 220 mL/min. Maximum particle count rate is 10,000 particles/second.

Computer Inbuilt, Celeron with 2.5SSD and 4GB RAM allowing full remote access.

Medical Grade Power Supply. 110V or 230V- no switching.

Calibration: The units are subject to a yearly calibration, if required. This to be carried out in-house by Site Pro-Tech.



AEGIS Unit

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DATA SHEET

POST AND CAMERA

Features

Camera

355 Degree Pan, IR, 1080P

Writes to NAS System

Storage 1>12 TB

Fully remote accessible

Motion detection with email

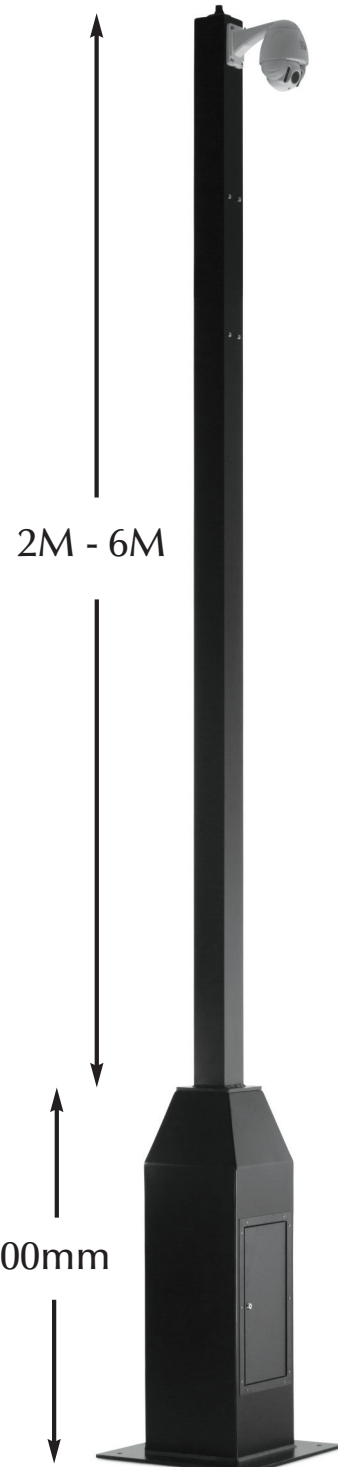
Post

Lockable base


4G Router

NAS Drive

GSM



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DATA SHEET

ANCILLARIES



Floodlight

Remotely switchable

Visual Alarm

Operating via GSM to show instant site status

Satellite Dish

To increase DB gain in area of poor reception



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DATA SHEET

AEGIS

AUTOMATED ENVIRONMENTAL GAUGING INFORMATION SYSTEM

Features

Particulate measures PM1, PM 2.5 and PM10

Vibration & Shock 3 Axis Accelerometer to measure vibration

Sound

Electronics housed within a weatherproof and tamper-proof enclosure

Choice of cellular, WiFi or Ethernet connection

Cloud-Based data access

Plug & play operation

Alarms via text or email

Real time monitoring



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