SVANTEK
monitoring systems

SD 310
Monitoring Systems Controller

The SD 310 is an intelligent controller that allows the integration of a dust and weather measurement modules with Svantek monitoring systems.

The solution offers the measurements of PM 10, PM 2.5, PM 1 dust particles or wind speed and direction, ambient temperature, humidity, pressure, and precipitation.

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SD 310 monitoring system controller

SD 310

Monitoring Systems Controller

Dust or Meteo

Integrate Dust Monitor
or Weather Module

Connect either the SP 276 weather station or the SP 280 dust monitor to the SD 310 and access the real-time results via a web interface. The measurement data are stored in the SD 310 memory in the Svantek's standard logger format (SVL).

On-line access

Access the measurement data via SvanNET

The SD 310 can use 4G, WLAN or LAN to connect to the SvanNET Cloud Service, providing an easy access to the SD 310 data and settings as well as the possibility of data integration within SvanNET Projects..

Web Application

Manage measurements on iPhone, Android or PC

The SD 310 user interface can be accessed via a WLAN, LAN or 4G connection. The web application provides full control of the system using any web browsing device, such as a mobile phone or a tablet.

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Key Features

Measurement Management

SD 310 technology is based on a Raspberry Pi module, which is responsible for measurement management, saving measurement data from external devices in the form of data files on an SD card and for wireless external communication. Using the 4G, WLAN or LAN connection, the SD 310 provides a user interface generated in the form of a website accessible via popular Internet browsers, e.g. on a tablet. The interface allows you to control the measurement (start / stop), configure measurement parameters, and view the measurement results.

Wireless Connectivity

With the external communication modules, e.g. LAN or optional 4G, the SD 310 can send measurement data in the form of files to a user account with a project service on SvanNET. This solution allows you to access device data and configuration from anywhere in the world.

Monitoring Alarms

The SD 310 is a controller dedicated to monitoring, therefore it has been equipped with the ability to generate SMS and email alarms, based on current measurement data from connected devices. In addition, the system sends notifications about the status of the stations (battery status, no power supply, memory status, communication problems).

GPS time synchronization

Optionally, the SD 310 can have a GPS receiver installed, which allows for the exact location of the device and synchronization of the measurement time.

Interface with Svantek Meters*

The SD 310 s able to communicate via Svantek Meters via USB communication extending their functionality with advanced remote communication, advanced alarms and multipoint measurement synchronization.

*function under development

Related software

SvanNET Projects
On-line data access

SvanNET Projects is a payable extension offering fully automated management of the multi-point noise and vibration monitoring task. Tools such as Automatic Files Download, Data Storage, Advanced Alarms, Data Sharing and Reporting enable unattended monitoring. The functionality of SvanNET Projects allows the grouping of monitoring stations.

SvanPC++ EM
Data post-processing

The SvanPC++ Environmental Measurements module is designed for post-processing of data recorded by the monitoring station. The module offers a powerful calculator and an automated noise event finder for noise source identification. SvanPC++_EM allows the combination and comparison of data from multiple measurements, as well as the creation and saving of reports in MS Word™ templates.

Related Products

SvanNET
Cloud Service
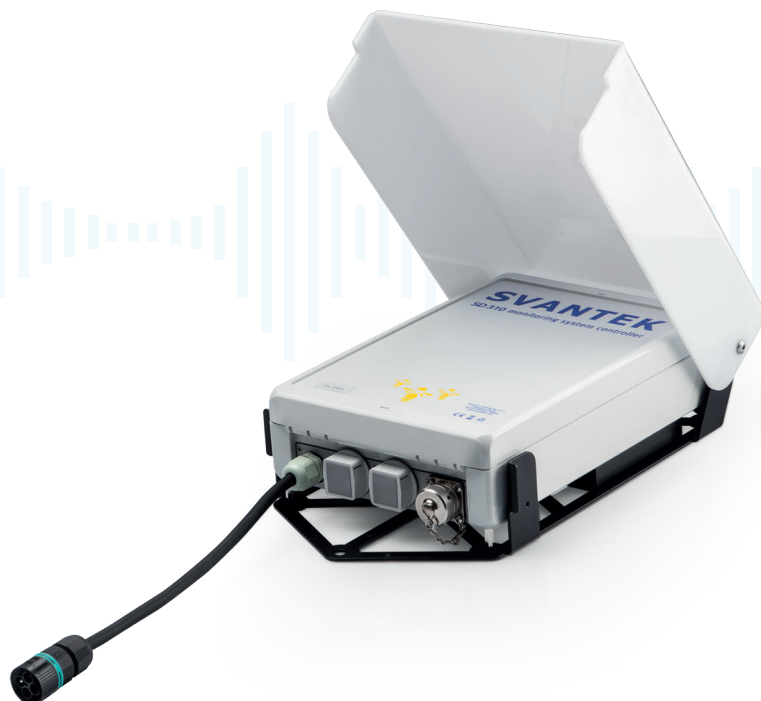
SvanPC++ EM
Post-processing Software

SP 276
Weather Station

SP 280
Dust Monitor

SV 258 PRO
Vibration Monitoring Station

SV 307A
Noise Monitoring Station

SD 310-1 – Monitoring System Controller

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Technical Specifications

User Interface	Remote operation via web browser
Data Logger	Logging of summary results, dust and weather data with logging step down to 1 s
Memory	32 GB (microSD card)
Communication Interfaces	1 x RS232 port 2 x host port via cable gland configurable as USB or LAN (Gigabit Ethernet) WLAN - 2.4GHz IEEE 802.11.b/g/n Bluetooth® - BLE 4.2 LTE (4G) modem
GPS	Used for time synchronization and localization (optional)
External Connectors	3-pin AC mains connector 8-pin External Interface port, incl. RS232 interface and power output 15 V, 1 A
Power Supply	Built-in AC power supply External DC source (not included)	input 90 ÷ 305 VAC output 40W, +15 VDC, 2.67 A voltage range 10.5 V − 17 V, e.g. 12 V accumulator
Ingress Protection Rating	IP 65
Environmental Conditions	Temperature Humidity	from -20 °C to 60 °C up to 99 % RH
Dimensions	360 mm x 200 mm x 90 mm
Weight	2.8 kg

The policy of our company is to continually innovate and develop our products.
Therefore, we reserve the right to change the specifications without prior notice.

SOUND AND VIBRATION MEASUREMENT SOLUTIONS