



AXILOG II

Vibration monitoring system



The AXILOG is a state of the art vibration monitoring system designed to quantify the load and determine the risk of damage on buildings and other structures.

The AXILOG system provides real-time measurements of vibration levels in accordance with BS, SBR or DIN guidelines with the advantage of remote monitoring tracking. It provides simultaneous readings of object velocity in the X, Y and Z directions, which can be presented in a variety of formats and printed with site annotations.

Easy to operate, the automated reporting function makes the AXILOG ideal for long-term monitoring. The system can be programmed with multiple alarm levels which provide an early warning in the event of preset levels being exceeded.

A rugged and lightweight system, the AXILOG is supplied with a two year calibration certificate and a rugged carry case.

Benefits of AXILOG II:

- Real-time remote monitoring
- Built in modem as standard
- Multiple alarm notifications for important events
- Automatically generates reports for easy long-term monitoring
- Rugged lightweight system
- Long internal battery life – up to 3 months
- Built in GPS sensor to record sensor location
- Free software updates
- Easy to operate

Software

The AXILOG software enables automatic read-out and reporting either directly from the AXILOG unit or remotely.

Data can be presented in a number of formats including:

- Real-time remote monitoring
- Built in modem as standard
- Multiple alarm notifications for important events
- Automatically generates reports for easy long-term monitoring
- Rugged lightweight system
- Long internal battery life – up to 3 months
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How it works

- Set the times, actions and desired report layout per AXILOG system
- Set the monitoring period (start and end time)
- Set the time at which the AXILOG must contact your PC
- As soon as the AXILOG contacts the PC, the data is downloaded
- As soon as the download ends, the report is generated





Measurements	
Velocity direction	X, Y, Z
Velocity range	0 to 50mm/s – 0.8 to 100Hz
Velocity resolution	0.01mm/s
Sensor type	Geophone
Signal processing method	Digital filter
Dominant frequency determination	FFT
GPS location sensor	GPS receiver, in sensor housing
GPS location accuracy	10m CEP
Sensor tilt	Digital spirit level, in sensor housing
Sensor tilt accuracy	± 0.1°
Data logging settings	
Logging interval time	2 to 120 seconds
Trigger level (minimum logging level)	0.01 to 50mm/s
Applicable standard	SBR-A, SBR-B, DIN45669B, BS 5528-2, BS7385-2
Memory configuration	Circular or linear
Alarm settings	
Number of alarm levels	Two
Alarm level curve	Absolute value, SBR / DIN / BS curves or user curve
Frequency dependent curves	All SBR / DIN / BS curves are integrated
Alarm message type	Electrical contact, email and / or SMS, contact server
Number of messages per alarm	Three contacts with two email addresses and two SMS numbers each
Online features	Contact remote server if an alarm occurs
Online functionality	
Management	Status, alarms and event overview of each AXILOG system
Real-time capabilities	Graphs updated including spectrum every two seconds
	Alarm logging on screen and in event log
	Status overview – logging on / off, battery condition, error status
Data acquisition	Read / erase memory
	Read / erase event log
	Set logging parameters
	Set modem schedule
Control	Start / stop logging either manual or with time schedule
	Alarms triggered by absolute values, reference standard curves or user curves
	Monitoring type – either BS, DIN or SBR
	Alarm action – either send e-mail or SMS
	Set event messages and send by e-mail or SMS
Event logging	Send email or SMS or contact the server at following events: Primary alarm, secondary alarm, power ON, battery empty, charger connected/disconnected, GPS obtained, Sensor, disconnected, sensor shock, IP obtained, registration started/stopped, server connection, memory almost full/completely full, GSM access fails, e-mail send fails, server connect fails.
Language settings	English, Dutch and German
Display	2 x LCD backlit displays for measurements and for settings
Battery	Lithium-ion 35 Ah capacity
Battery charge	Mains or car battery
Battery charge time	12 hours (after full discharge)
Connections	Mini USB / Alarm / Charger / Sensor / External Antenna
Modem	Mini SIM (2FF), GPRS/3G network. Internal antenna and optional external antenna
Environmental protection	IP65 – Logger and Sensor
Temperature operating range	-10°C to +50°C
Temperature storage range	-20°C to +60°C