

GM730

SEISMIC DETECTOR

VANDERBILT



Vanderbilt's powerful GM7xx- series is the result of over 45 years engineering experience in the field of seismic detectors. Our products are specifically designed for round-the-clock monitoring of safes, ATMs, strong rooms or any other environment with high concentration of valuable assets or dangerous goods.

All known types of intruder attacks generate unique vibration patterns. Their characteristic values such as timing, frequency and amplitude are detected and analysed using Vanderbilt's patented Senstec® technology. This technology also ensures that environmental disturbances are ignored, and false alarms eliminated.

The GM730 seismic detector offers an outstanding price/performance ratio with advanced functionality for the use in safes, night deposits and ATMs. It is perfectly suited for protecting valuables repositories made of concrete and steel.

Key Features include:

- For applications on steel and concrete
- High performance Senstec® bimorph sensor for enhanced detection sensitivity
- Advanced micro-controller based digital signal processing
- Reliably distinguishes between real attacks and ambient noise
- Fast installation and adjustable application-specific sensitivity settings
- Programmable sensitivity levels and response times
- Built-in PC interface for software monitoring and configuration software
- Small, slim and modern design
- Low power consumption

Detection of:

- Hammers, chisels
- Saws, crowbars
- Sledgehammers
- Concrete grinders
- Diamond-head drills
- Hydraulic pressure tools
- Water-jet cutting tools
- Thermal tools
- Cutting torches
- Oxygen lances
- Explosives

Immunity to:

- Operational noises
- Environmental influences

Applications:

- ATMs
- Safes
- Night deposits
- Ticket machines
- Vending machines

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Features & Benefits

■ Reliable detection

Reliable recognition of all known mechanical and thermal attack tools, such as diamond-tipped drills, hydraulic pressure tools, flame cutters, thermal-lances or water jets on safes, automatic teller machines, night deposits, strong rooms and modular vaults made of steel.

■ Comprehensive Range

Vanderbilt's product range offers the right detector for every application, feature and approval requirement. For more information, visit www.vanderbiltindustries.com.

■ Senstec® sensor

The patented Senstec® sensor and digital signal processing detects and evaluates a selected narrow frequency band to ensure reliable detection. This comprehensive protection is immune to environmental influences including air and structure borne noise from external disturbance sources.

■ Decades of experience

Vanderbilt has 45 years of engineering experience in protecting valuables in all aspects of security technology. Large-scale ongoing investment is dedicated to develop solutions and products for the very latest application.

■ International approvals

Compliance with international standards – such as VdS, UL, CCC, NF, IMQ, SBSC, RCM, INCERT, etc. - is crucial to ensure that security systems are installed professionally and remain reliable.

Recommended Accessories

■ SensTool software

SensTool software is used to program seismic detectors beforehand or directly on site. SensTool provides visual imaging of structure-borne sounds derived from mechanical or thermal attack tools and immediately displays the type of the detected alarm.

■ Mounting plate

The use of the GMXP0 mounting plate ensures easy installation and reliable detection performance. It is strongly recommended to use the mounting plate on every Senstec® seismic detector and mandatory for use on uneven steel surfaces and concrete applications.

■ Internal test transmitter

The GMXS1 remote test transmitter is installed directly inside the detector and is used for function and mounting testing of a single seismic detector prior to system arming.

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■ Technical Data

Detection characteristics	
– Operating radius / Coverage	
– Concrete	4m / 50m ²
– Steel	2m / 12m ²
Power supply (nom. 12V_{DC})	
– Voltage monitoring	V _{CC} = 8V _{DC} ~ 16V _{DC} Alarm if voltage low
Power consumption (8V_{DC} ~ 16V_{DC})	
– Quiescent / Alarm	I _{typ} = 2.5mA ~ 3.5mA I _{max} = 5mA
Alarm output	
– Relay (opens on alarm)	30V _{DC} / 100mA / R _i < 45Ω
– Alarm hold time	ca. 2.5s
Sabotage surveillance, Tamper	
– Cover & surface contact	Opens on sabotage
– Contact load	30V _{DC} / 100mA
Test point output	
	Analogue integration signal
Function test	
– For test	Low ≤ 1.5V _{DC} / High ≥ 3.5V _{DC}
– Test duration until alarm with GMXS1	≤ 3s
– Test duration until alarm with GMXS5	≤ 90s
Adjustments	
– DIP switch setting	3 fixed DIP settings
– Via SensTool PC Software	Fully configurable
Environmental conditions	
– Operating temperature	-40°C ~ 70°C
– Storage temperature	-40°C ~ 70°C
– Air humidity (EN 60721)	< 95%rh, non-condensing
– Housing protection (EN 60529, EN 50102)	IP43
– Electromagnetic compatibility (EMC)	EN 50130-4, CFR 47, FCC Part 15:2008 (Class A Digital Device)
Dimensions	
	89mm x 89mm x 22mm
Approvals	
	VdS, UL, CCC, RCM, CNPP, IMQ, INCERT, REQ, F&P, NBÚ, VSÖ, SBSC, PIE, MABISZ, BSI, PD6662

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