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:**
- 4m operating radius / 50m² coverage area
- 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
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.

- **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.

- **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.

- **Comprehensive Range**
  Vanderbilt’s product range offers the right detector for every application, feature and approval requirement. For more information, visit [www.vanderbiltindustries.com](http://www.vanderbiltindustries.com).

- **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.

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.
Technical Data

Detection characteristics
- Operating radius / Coverage area on concrete & steel
  - For all types of tools (including thermal tools) 4m / 50m²

Power supply (nom. 12Vdc)
- Voltage monitoring $V_{cc} = 8V_{dc} \sim 16V_{dc}$
  - Alarm if voltage low

Power consumption (8Vdc ~ 16Vdc)
- Quiescent / Alarm $I_{typ} = 2.5mA \sim 3.5mA$
  - $I_{max} = 5mA$

Alarm output
- Relay (opens on alarm) 30Vdc / 100mA / $R_c < 45\Omega$
  - Alarm hold time ca. 2.5s

Sabotage surveillance, Tamper
- Cover & surface contact Opens on sabotage
  - Contact load 30Vdc / 100mA

Test point output Analogue integration signal

Function test
- For test Low $\leq 1.5V_{dc}$ / High $\geq 3.5V_{dc}$
  - Test duration until alarm with GMXS1 $\leq 3s$
  - Test duration until alarm with GMXSS $\leq 90s$

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, NBÜ, VSÖ, SBSC, PIE, MABISZ, BSI, PD6662
# Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Art. No.</th>
<th>Description</th>
<th>Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM730</td>
<td>V54534-F107-A100</td>
<td>GM730 Seismic detector</td>
<td>0.285kg</td>
</tr>
<tr>
<td>GMSW7</td>
<td>VA5Q00006246</td>
<td>GMSW7 SensTool-SW - GM730/760/775</td>
<td>0.128kg</td>
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<tr>
<td>GMXP0</td>
<td>VBPZ:2772730001</td>
<td>GMXP0 Mounting plate - GM7xx</td>
<td>0.290kg</td>
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<tr>
<td>GMXC2</td>
<td>VBPZ:5021840001</td>
<td>GMXC2 Connection sleeve (16mm) - GM7xx</td>
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<tr>
<td>GMXS1</td>
<td>VBPZ:4202370001</td>
<td>GMXS1 Internal Test transmitter - GM7xx</td>
<td>0.025kg</td>
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<tr>
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<td>VBPZ:5627000001</td>
<td>GMXS5 External Test transmitter - GM7xx</td>
<td>0.363kg</td>
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<tr>
<td>GMXB0</td>
<td>VBPZ:2772020001</td>
<td>GMXB0 Floor recess box - GM7xx</td>
<td>2.237kg</td>
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<tr>
<td>GMXW0</td>
<td>VBPZ:2771210001</td>
<td>GMXW0 Wall / Ceiling recess box - GM7xx</td>
<td>1.380kg</td>
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<tr>
<td>GMXD7</td>
<td>VA5Q00006245</td>
<td>GMXD7 Anti-drill foil (10x) - GM730/60/75</td>
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<tr>
<td>GMAS6</td>
<td>VBPZ:4886060001</td>
<td>GMAS6 Movable mounting kit - GM7xx</td>
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<td>GMXP3</td>
<td>VBPZ:3470190001</td>
<td>GMXP3 Lock protection - GM7xx</td>
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<tr>
<td>GMXP3Z</td>
<td>VBPZ:5712410001</td>
<td>GMXP3 Lock protection - GM7xx</td>
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<td>GMXS2</td>
<td>VBPZ:3506110001</td>
<td>GMXS2 2mm Spacer for GMXP3 / GMXP3Z</td>
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<td>GMXS4</td>
<td>VBPZ:3506240001</td>
<td>GMXS4 4mm Spacer for GMXP3 / GMXP3Z</td>
<td>0.025kg</td>
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</table>

* Total weight of the product inclusive of the weight of its accessories and packaging.