Vanderbilt’s powerful GM7xx-series is the result of over 45 years of 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
  - Voltage monitoring \( V_{CC} = 8V_{DC} \sim 16V_{DC} \)
  - Alarm if voltage low

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

### Alarm output
- Relay (opens on alarm)
  - 30Vdc / 100mA / \( R_i < 45\Omega \)
  - 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
  - Test duration until alarm with GMXS1 \( \text{Low} \leq 1.5V_{DC} / \text{High} \geq 3.5V_{DC} \)
  - Test duration until alarm with GMXSS \( \leq 3s \)
  - \( \leq 90s \)

### Adjustments
- DIP switch setting
  - 3 fixed DIP settings
- Via SensTool PC Software
  - Fully configurable

### Environmental conditions
- Operating temperature
  - \(-40°C \sim 70°C\)
- Storage temperature
  - \(-40°C \sim 70°C\)
- Air humidity (EN 60721)
  - \(< 95\%rh, \text{non-condensing}\)
- Housing protection (EN 60529, EN 50102)
  - IP43
- Electromagnetic compatibility (EMC)
  - (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
## 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>
<td>GMXS5</td>
<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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<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>
<td>0.594kg</td>
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<tr>
<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>GMXP3Z  Lock protection - GM7xx</td>
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<tr>
<td>GMXS2</td>
<td>VBPZ:3506110001</td>
<td>GMXS2  2mm Spacer for GMXP3 / GMXP3Z</td>
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<tr>
<td>GMXS4</td>
<td>VBPZ:3506240001</td>
<td>GMXS4  4mm Spacer for GMXP3 / GMXP3Z</td>
<td>0.025kg</td>
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</tbody>
</table>

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