



GM530

LOW PROFILE SEISMIC SENSOR

**UNIVERSAL APPLICATION—ROUND
THE CLOCK MONITORING OF SAFES,
NIGHT DEPOSIT BOXES AND ATMS**

**DETECTS ALL KNOWN ATTACK
METHODS**

**OUTSTANDING FALSE ALARM
IMMUNITY**

10 FOOT (3 M) DETECTION RADIUS

Siemens is the acknowledged worldwide leader in seismic vault sensor technology. Research laboratories in Switzerland build on decades of experience to apply the latest technologies to the protection of a variety of metal concrete and composite structures.

The GM530 seismic sensor provides reliable detection of the vibrations caused by attacks on safes, vaults, automatic teller machines (ATMs), night safes, strong rooms, automatic ticket machines and pay phones. Its low profile design makes it easy to install where space is limited.

Detects All Known Attack Methods

The GM530's patented SENSTEC® technology detects all known mechanical and thermal attacks, such as explosives, diamond tipped drills, hydraulic pressure tools, flame cutters, thermal lances and water jets. The detection range is 20 feet (6 meters) for mechanical attacks and 10 foot (3 meters) for all attack methods, including thermal tools.

Outstanding Detection

The GM530 uses Siemens' patented SENSTEC® sensor technology to provide unrivaled detection on a variety of construction materials. The sensing element is very tolerant of imperfect mounting surfaces, making the GM530 easier to install than competing seismic sensors.

False Alarm Immunity

The GM530 reacts only to those frequencies consistent with an attack on the protected structure. Environmental disturbances are ignored. The units are extremely well protected against RFI and are unaffected by airborne sound, making them suitable for installation on the outside of a safe.

Integrated Test Generator

An integrated test generator checks for correct installation and operation.

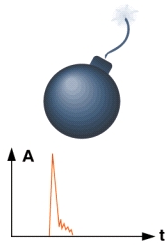
Programming Options

Sensitivity and response time can be programmed to suit the requirements of the installation. Predefined settings make the GM530 easy to program for all common applications.

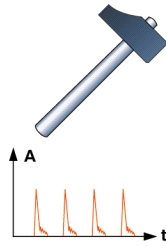
Complete Line of Accessories

The GMXPO mounting plate provides an effective connection to concrete surfaces. The GMXWO allows recess mounting, while the GMXBO enables the sensor to be mounted in the floor. The GMXC2 is a connection sleeve for conduit. The GMAS6 lets the sensor be moved from the side of a safe in disarmed mode (allowing opening of the door) to the door in armed mode.

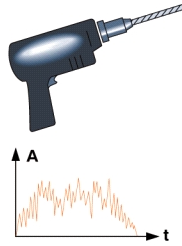
SIEMENS SEISMIC SENSORS DETECT ALL KNOWN ATTACK METHODS



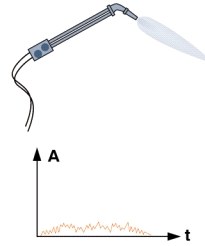
- Explosion
- Dynamite
- Hydraulic tool



- Hammer
- Chisel
- Percussion drill
- Concrete grinder



- Drill
- Abrasive cutter
- Diamond bit drill
- Water-jet cutting tool



- Thermal tool
- Cutting torch
- Oxygen lance
- Laser cutting tool

SPECIFICATIONS

Detection Radius	Mechanical tools only— 20 ft / 1256 ft ² (6m / 113m ²). All tool types (including thermal)— 10 ft / 314 ft ² (3m / 28m ²) Stated radius applies to concrete or steel.
Frequency Range	13-19kHz
Input Voltage:	12V DC (7—16VDC)
Voltage Monitoring	Alarm at less than 6.5V DC
Current Draw:	3mA standby or in alarm; 3.5mA in alarm with LED on, cover open
Alarm Output:	Form A (NC) contacts rated 30VDC @ 100mA; Resistance < 20Ω. Open collector: alarm → 0V; Resistance 1.5kΩ
Alarm Duration:	Approx. 2.5 seconds
Tamper Contact:	Cover contact (opens on tamper) 30V DC @ 100mA
Test Point Output:	Analog integration signal
Functional Test Input:	To activate integrated self test system LOW ≤ 1.5V DC. Test duration ≤1 second
Programming	Dip Switches Settings Sensitivity 4 Settings Response Time 2 Settings Shock Response 3 Settings
Environmental Conditions	
Operating Temp.:	-4 to 131°F (-20 to +55°C)
Storage Temp:	-58 to 158°F (-50 to +70°C)
Humidity:	<95% relative humidity, non condensing
Housing protection	IP43
EMI Rejection:	1—2000MHz >15V/m

HOW TO ORDER

Item	Description	Weight
GM530	Seismic Sensor	11.3oz (0.32kg)
GMXPO	Mounting Plate	9.5oz (0.27kg)
GMXWO	Wall Recess Kit	4.1oz (1.16kg)
GMXBO	Floor Box	4.6lb (2.085kg)
GMXBSO	3.15"x11.81"x11.81" (8x30x30 cm) Polystyrene Block for GMXBO	5.3oz (0.15kg)
GMXC2	Conduit Connection Sleeve, 16mm	0.4oz (0.01kg)
GMAS6	Fixing Device	14.1 oz (0.4kg)