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# DV Series

Vault Sensors

### Overview

DV Series Vault Sensors are designed to detect attempts to break into vaults, safes, night deposit boxes, automatic teller machines (ATMs), and other reinforced physical areas such as data storage and filing cabinets. The seismic detection system reacts to the characteristic vibration patterns of all breaking-and-entering tools, such as hammers, drills, diamond saws, hydraulic pressure tools, and thermal tools like welding, torch, and thermal lance. They sense vibrations that occur within a 9.8 to 45.9 foot (3 to 14 meter) radius of where they are mounted, depending on the material and design of the protected object.

The vault sensors allow for normal human activity around the protected area without the risk of creating unwanted alarms. To achieve this high level of accuracy, each sensor features "three sensors in one." All three channels (counting, integration, and explosion) analyze the signal frequencies, duration, and amplitude in order to differentiate between random environmental disturbances and real intruder attack. The end result is sensors with excellent detection and false alarm immunity.

The DV Series is a next generation development based on proven high technology electronic processing. The sensors provide excellent, secure detection without false alarms.

### Testing And Accessories

The DV Series provides two different test functions: automatic or manual activated. Choose between internal test of the sensor electronics or, by using the test transmitter DV1215A, do a functional test of the sensor and its physical contact to the protected object. A complete range of accessories is provided for all kinds of applications to achieve the highest security.



### Standard Features

- **Detects all known methods of attack against vaults, safes, walls, automatic teller machines (ATMs), and metal cabinets**
- **Advanced signal processing differentiates between ambient noise and real attacks**
- **Three analyzing channels tailored to specific types of attack**
- **Full-scale tamper protection**
- **Compatible with virtually all conventional control units**
- **Test point for on-site performance measurement**
- **Extremely low current draw**
- **Adjustable sensitivity**
- **Complete line of accessories**
- **Easy to install**

## Ordering Information

Main Product Offering	Part Number
Vault Sensor (for Vaults and Safes)	DV1201A
Vault Sensor (for ATM and Night Deposit Safe)	DV1221A
Eight-Point Remote Annunciator	DV1208A
Self-Contained Test Transmitter	DV1215A
Plastic Insert (for Round Conduit)	DV1216A
Plastic Insert (for Double Conduit)	DV1218A
Armored Cable Kit (6')	DV1219A
Recessed Floor Mounting Box	DV1220A
Tampered Junction Box	DV1228A
Handheld Tester	DV1230
High Security Cable	WS300

## Specifications

### Electrical

- Input power
  - External DC power source 9-15 V DC, 2 V maximum ripple peak-to-peak
- Current consumption 8.6 mA
- Alarm output Form C
- Tamper connection Normally closed switch rated @ 100 mA, 30 V
- Alarm indication Remote LED output for use with DV1208A
- Sensitivity adjustment in five increments of approximately 6 dB each
- Test output level TP4 for measuring the ambient noise
- Tamper heat attack 183°F (84°C)
- Low voltage alarm voltage drops below 7.5 V
- Operating life MTBF 240,000 hours

### Environmental

- Temperature limits
  - Operational -4° F to 131°F (-20°C to +55°C)
  - Storage -58°F to 158°F (-50°C to +70°C)
- Relative humidity Operational @ 90% RH at 86°F (30°C)
- Electric field maximum 5 x 10<sup>4</sup> gauss
- Static discharge maximum 20 kV
- Electric discharge maximum 1.5 kV at 0.4 mjoule, maximum 300 V at 0.5 mjoule

### Physical Description

- Color Gray
- Dimensions 3.93" x 3.15" x 1.3" (L x W x D)
- Weight .86 lbs.

### DV1215A Built-In Test Transmitter

- Size 0.8" x 0.8" x 0.4"
- Weight 7 grams

### DV1208A Test System Panel

- Power 10.7-15 V DC
- Current consumption
  - In standby = 13 mA
  - In test (typical) = 130 mA
- Temperature limit -4°F to 131°F (-20°C to +55°C)



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