

# SPD-1000

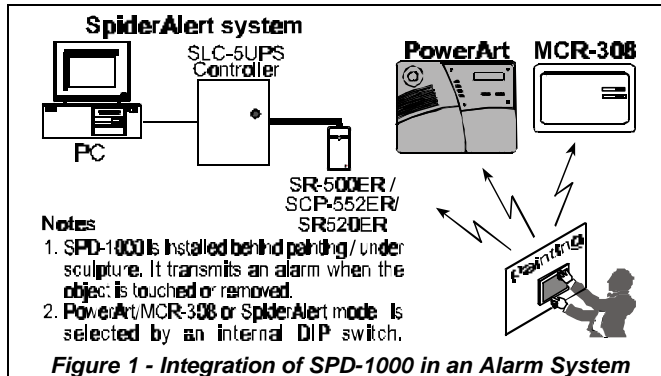
## Wireless Magnetic Displacement Detector

# SpiderAlert®

## Technical description

### 1. INTRODUCTION

SPD-1000 is a fully supervised wireless detector, designed for protection of paintings, sculptures and other artwork, in museums, galleries, churches, private artwork collections, etc.



When someone tries to touch or remove the secured object, to which the detector is attached, an identifiable alarm signal is transmitted to alert security personnel. Identifiable signals include: low battery voltage alert, low severity alarm (slight touch) and high severity alarm (repetitive touch, strong touch or removal).

### 2. SPECIFICATIONS

**Movement Detection Sensitivity:** 0.1 mm

**Transmission Frequency (MHz):** 315 or 433.92

**Compatible Receivers:** PowerArt / MCR-308, SpiderAlert SR-500ER / SCP-552ER / SR-520ER.

**Overall Message Length:** 36 bits, including 24-bit identification code, pulse width modulation.

**Supervision Transmission:** Every 60 min. (USA) / 15 min. (Europe)

**Power Source:** Two 3V/160 mAh Lithium batteries, GP CR-2025, or equivalent.

**Current Consumption:** 8 µA (STBY), 8 mA (transmission)

**Battery Life:** 5 years under normal installation conditions

In addition, the detector periodically sends supervision signal as a serviceability report. With PowerArt high level, sensitivity can be extended.

The detector has 3 modes:

**1st. "Sleep"** - for the detector transport or long term storage, without causing an alarm. In this mode the current consumption is very low.

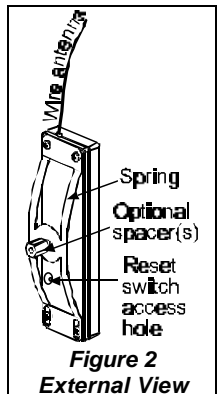
**2nd. "Installation"** - for sensor's spring active range adjustment and for teaching the SpiderAlert / PowerArt system the detector's identity.

**3rd. "Operation"**.

All mode changes and alarms are aurally indicated by an integral buzzer.

The SPD-1000 has tracking mode (for SpiderAlert only) that enables to track the secured object's location up to 10 minutes after its removal (with SpiderAlert receivers deployed within the site). This option is possible if the detector is attached to the secured object.

For a large painting, several SPD-1000 units can be used.



**Battery Supervision:** Automatic transmission of battery condition data as part of any status report.

**Tracking Transmission:** Every 30 sec., while the secured object is being moved from its original place, up to 10 min. after last movement.

**Operating Temperatures:** 0°C to 50°C (32°F to 122°F)

**Dimensions (HxWxD):** 96 x 28 x 22 mm (3-13/16 x 1-1/8 x 7/8 in.)

**Weight (with battery):** 34.8 g (1.2 oz)

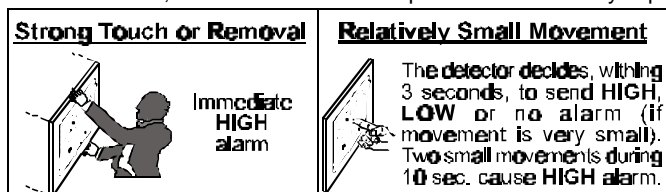
**Color:** Housing - white, spring - nickel

**Compliance with Standards.:** FCC part 15, CAN 1467102181

#### Operation

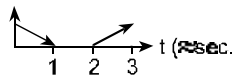
SPD-1000 function is based on magnetic field changes as a result of the secured object movements. The detector has 2 detection levels - low severity alarm (continuous slight touch) and high severity alarm (strong touch or removal).

Once stabilized, the detector checks its position continuously. Upon a movement detection, the detector sends alarm as follows:



**Note:** After **HIGH** alarm only, the detector needs 90-second stabilization period at least, for the next movement detection.

When Low or High level alarm is transmitted, 2 weak buzzer sounds are heard, as shown.



#### Compliance with Standards

This device complies with FCC Rules Part 15. Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

The 315 MHz is for USA & Canada - not allowed in any EU member state. The 433.92 MHz has no restriction in any EU member state.



**Visonetix**



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