



# Seismic Detector Installation Manual

EN

**1**

+12V -0V LED INTERGRATOR LEVEL ALARM RELAY SPARE TAMPER TEST SPARE SPARE

**2**

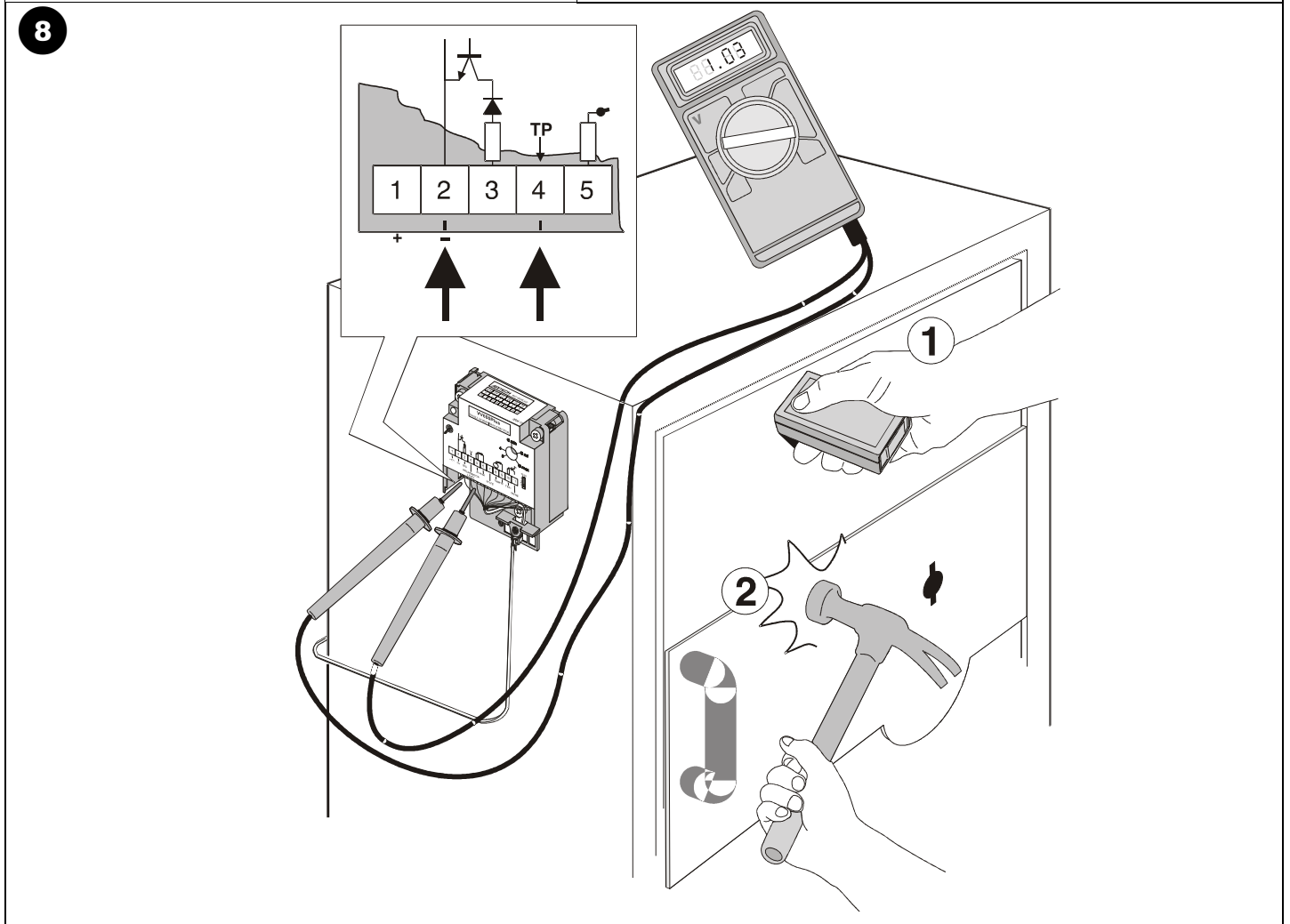
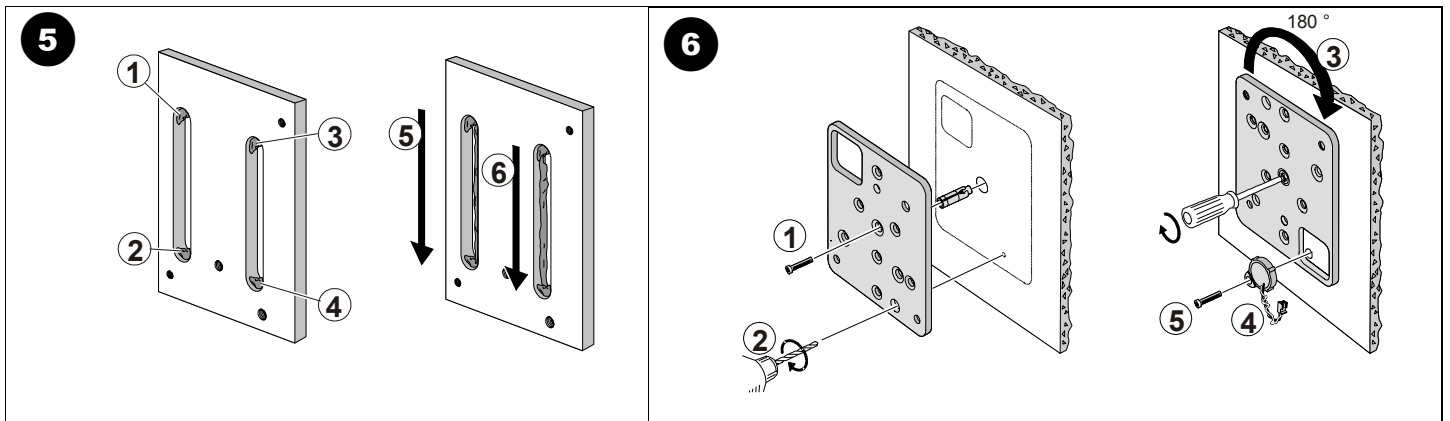
Test disabled (ex factory setting) Internal test Functional test

1 2 3 1 2 3 1 2 3

VT705P Test Transmitter

**3**






# EN Installation instructions

## General Information

The VVS302-BR is a variant of the VVS302-PLUS with a decreased sensitivity on the explosion channel compared to the VVS302-PLUS. The VVS302-BR is designed to meet specific requirements such as, but not limited to, the opening and closing of safe/vault/ATM without triggering an alarm.

Therefore, GE Security declines any and all responsibility and liability for any incident and/or damage and/or claim arising from the use of the VVS302-BR instead of the VVS302-PLUS.

Carefully test the detector, referencing to figure 7, on the application to confirm the explosion channel is triggered.


 For further information, see the complete manual "Planning and Installation Manual VVS300/VVS302 Plus".

### Figure 1: Wiring diagram

- |    |                  |    |              |
|----|------------------|----|--------------|
| ①② | 12 VDC           | ⑦  | Spare        |
| ③  | LED indication   | ⑧⑨ | Tamper       |
| ④  | Integrator level | ⑩  | Test control |
| ⑤⑥ | Alarm output     | ⑪  | Spare        |

### Figure 2: Two ways to test the seismic detectors

- ① Test disabled (ex-factory setting).
- ② Internal test of detector's electronics = Position jumper between 1 and 2.
- ③ Function test of the detector and its physical contact with the protected object = Position connector from test transmitter VT705P between 2 and 3.

 Connecting terminal 10 to 0 V activates both tests.

### Figure 3: General characteristics of the VVS302-BR

- ① Cover
- ② Cover screw
- ③ Base plate
- ④ Mounting holes
- ⑤ Clamp
- ⑥ Area for mounting the VT705P test transmitter
- ⑦ Potentiometer for adjusting the detector's sensitivity
- ⑧ Connection block
- ⑨ Anti-tamper micro-switch
- ⑩ Mounting plate VM600P
- ⑪ Fixing bolt
- ⑫ Expander bolt
- ⑬ Test transmitter VT705P

### Using the mounting plate VM600P as a template

- A. Holes for VVS300/VVS302 Plus
- B. Holes for Securitas SSD70
- C. Holes for Cerberus GM31/35/550/560
- D. Hole for expansion plug or recess mounting box
- E. Holes for Securitas 2000
- F. Template and mounting holes for test transmitter VT705P
- G. Holes for accessories.


### Figure 4: Mounting the detector directly on a metal surface without using a mounting plate

### Figure 5: Mounting the detector on a metal surface using the VM604P weld-on plate

First weld points 1, 2, 3, and 4. Then weld seams 5 and 6.

### Figure 6: Mounting on concrete


Always use a VM600P mounting plate. The expansion plug must penetrate at least 50 mm into the concrete. Please follow the steps shown in Figure 6 if you are installing the test transmitter VT705P.

 For the equipment to conform to CEI standard 79-2, the VT705P test transmitter must be installed.

### Figure 7: Control and function test

Using a voltmeter, check the background signal level in the detector to prevent nuisance alarms. Set the sensitivity to  $G_{max}$  during the test.

Value	Measure
0 V	None
2 V	Reduce range/remove source

 Try to remove the source of ambient noise instead of reducing the range.

Functional testing with hand tester VT610P ① and mechanical tool ②: Alarm in 45 sec.

### Detection range (in meters)

Material	Sensitivity setting	Thermal lance	Diamond disk	Drilling
Concrete	1/ $G_{max}$	4	14	14
Steel		8	14	14
Brick		3	8	8
Concrete	2/ $G_{ref}$	3	9	9
Steel		4	9	9
Brick		1	6	6
Concrete	3/ $G_{min}$	2	6	6
Steel		2	6	6
Brick		-	4	4
Concrete	4	1	5	5
Steel		1	5	5
Brick		-	3	3
Concrete	5	-	4	4
Steel		-	4	4
Brick		-	2	2

### Technical specifications

Input power:..... 9-15 V DC  
..... 2 V max. ripple pp  
Current consumption:..... Nom. 8.6 mA  
Alarm output:..... Form A solid state relay,  
..... max. series resistance 35 Ohm  
Alarm indication:..... LED-ind. output 3  
Sensitivity:..... 5 steps of 6 dB each  
Range:..... See Table "Detection range"  
Sabotage protection:..... Temp. 84°C, drill shield, opening/pry-off contact,  
Low voltage alarm:..... 7.5 V  
Temperature limits:..... -20 to +55°C  
Dimensions:..... 101 x 81 x 28 mm  
Colour:..... Grey, RAL 7035  
Weight:..... 380 g



The European directive "Waste Electrical and Electronic Equipment" (WEEE) aims to minimise the impact of electrical and electronic equipment waste on the environment and human health. To conform with this directive, electrical equipment marked with this symbol must not be disposed of in European public disposal systems. European users of electrical equipment must now return end-of-life equipment for disposal. Further information can be found on the following website: [www.recyclethis.info](http://www.recyclethis.info).

