

DG457 / 457 **Digital Glassbreak** Detector V1.0



Instructions / Instrucciones

P ▲ R ▲ D O X[™] PARADOX.COM DG457-TI03 09/2019

English

GlassTrek delivers effective coverage of plate, tempered, and laminated glass without the need for complicated sensitivity adjustments. GlassTrek can be used in most protected areas, including rooms with blinds, curtains, or multiple windows as long as careful coverage tests are conducted using TestTrek. Breakage in panes of glass 40.6 cm x 61 cm (16 in. x 24 in.) or larger will be detected, for every standard thickness of plate (0.3 cm x 0.6 cm or 1/8 in. x 1/4 in.). The GlassTrek is available in two models:

DG457*:	EVO or Stand-Alone Mode
457:	Stand-Alone Mode only

*See Technical Specifications on reverse for voltage meter details

Installation

Look for installation locations on the ceiling or walls adjacent or opposite to the protected glass and ensure that the installation will respect the detection angle as shown in Figure 2. Make sure that the microphone side of the detector has a direct and unobstructed view of the protected glass and that the detector is positioned so that the protected glass lies within the optimal detection angle. Avoid proximity to noisy objects such as bells, fans, compressors and loud machinery.

NOTE: After the initial power-up sequence, the unit remains in test mode for approximately 1 minute.



The GlassTrek should not be connected to 24 hour zones. Installation is not recommended in areas that contain any of the

following: windows with closed wooden interior shutters, windows with insulated, lined, or sound-muffling drapes, rooms w/ ceilings higher than 4.5m (15 ft), if ceiling-mounted, rooms smaller than 3m x 3m (10 ft x 10 ft) where loud noise is common or rooms where machinery noise is present.



Jumper Settings

J1 Alarm Memory OFF = Enabled ON = Disabled Δ

When enabled, the red LED remains on (latched) until you set jumper J1 on and remove it again, or you disable Alarm Memory in section [001] (DG457 only), or you disconnect and restore power to the detector. The alarm relay remains latched for 5 seconds. When disabled, the red LED illuminates for 5 seconds.

J2	Sensitivity Settings		
	OFF =	Regular Δ	
	ON =	Low	

Set it to regular sensitivity if the environment has damping materials such as drapes, carpets, furniture. Install at 1.2m to 9m (4 ft to 30 ft) from the protected glass. Set it to low sensitivity if the environment produces echoes, as when the walls and ceilings are concrete or metal. Install at 1.2m to 4.5m (4 ft to 15 ft) from the protected glass.

J3	Operati (DG457	onal Mode only)
	OFF =	Relay mode Δ
	ON =	Combus mode

In relay mode, the Glasstrek functions as would any standard motion detector by communicating its alarm and tamper signals via relays. The GRN and YEL terminals are not used in relay mode. In combus mode (DG457 only), the Glasstrek communicates alarm signals, tamper signals, data and detector settings via the combus. The detector's relay output always remains active even when set to combus mode and can be used to activate other devices.

Detector Settings

Enter Programming Mode: Press and hold [0] ⇒ [INSTALLER CODE] ⇒ [4003] ⇒ Serial #

Section [001]

[1]	Sensitivity Settings	
	OFF =	Regular Sensitivity Δ
	ON =	Low Sensitivity
[3]	Alarm Memory	
	OFF =	Alarm memory disabled Δ
	ON =	Alarm memory enabled
[5]	Tamper Recognition	
	OFF =	Tamper recognition disabled Δ

Figure 1 : Back Cover

ON = Tamper recognition enabled



Testing the Unit

- 1. With the TestTrek 459 (V2.0 or higher) within 2.5m (8 ft) of the GlassTrek, hold the test button down. A series of beeps initiates test mode. Alternatively, enter 123 in section [002] (DG457 only), or remove and replace J1.
- 2. The red and green LEDs illuminate for 5 seconds, followed by an intermittent flashing of the red LED to indicate it is in test mode. GlassTrek will exit test mode after approximately 3 minutes.
- 3. Place the TestTrek near the protected window and press the red "push" button on the TestTrek. A beep is produced.

Solid Red and Green LED =

Test OK - The GlassTrek has detected the signal and generated an alarm. Flashing Red and / or Green LED = Test Failed - Perform another test by carefully striking the protected surface with a cushioned tool. If both LEDs still do not illuminate, increase the sensitivity of the GlassTrek detector, or re-position the GlassTrek detector, or the room may be too large to support the GlassTrek detector.

Figure 2 : Detection Angle



Technical Specifications

Voltage	9 - 16 Vdc FOR DG457 ONLY: Used for trouble-shooting, t The 3-digit number that appears on the screen r
Current	DG457 (35 mA) 457 (25 mA)
Coverage	High: 9m (30 ft) / Low: 4.5m (15 ft)
Size	9 x 6.6 x 2.5 cm (3.5 x 2.6 x 1 in.)
Weight	100g (4 oz)
Alarm output	150 mA, 28 Vdc, Form A (N.C.) / via combus
Anti-tamper output	150 mA, 28 Vdc, Form A (N.C.) / via combus
Operating temp.	-20°C to 50°C (4°F to 122°F)
Processing	1. Attack rise time 2. Attack sound pressure lev 3. 7-band audio spectrum analysis 4. Envelope
Microprocessor type	12/8-bits
Compatibility	All EVO Series control panels
Testing tool	TestTrek (DG459) V2.0 or higher
Certification (i.e. CE, UL)	For updated information, visit paradox.com

Warranty

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the voltage meter indicates the GlassTrek's input voltage. Enter section [900]. represents input voltage x 10 (e.g. [133] = 13.3V). duration 5. Infra-sound