Acoustic Glass Break Detector
AD700 & AD700-AM

- Operating radius up to 9.0 m
- Digital room compensation
- Detector can be tested by using the glass break simulator ADT700
- Excellent immunity to false alarms
- 165° coverage enables multiple risk detection

Answers for infrastructure.

SIEMENS

Description

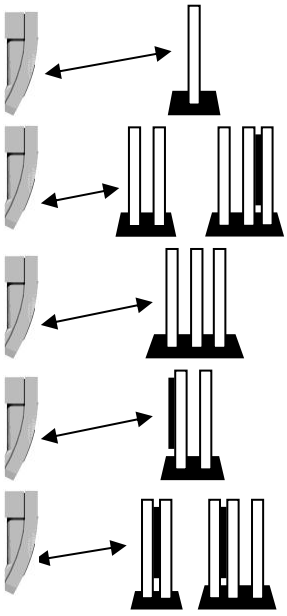
The AD700 and AD700-AM are a modern range of acoustic glass break detectors, which provide an alarm sgnal when breaking glass has been detected.The detectors are based upon the latest microcontroller technology and are programed to consider relavant acoustic factors, including the Digital Room Compensation (DRC) factor. Due to the complex algorithims the detectors can precisley distinguish between the true breaking of glass and other noise signals and therefore they provide a 100% resistance to false alarms.
The AD700-AM is equipped with an anti-masking function, which has a separate relay for additional security and signalling purposes.The AD700 & AD700-AM detectors can be mounted on the ceiling or the opposite wall from the protected window(s). The expansive 165° detection coverage range allows the detectors to protect several windows in the same room.

AD700 & AD700-AM detection range

AD700 & AD700-AM zone settings

Window design		**Type of glass in the pane inside room**		**Range**		
				1 - 2 m	2 - 4 m	4 – 9 m
1	Single glazed	Float & tempered		Zone 3	Zone 2	Zone 1
2	Double glazed	Float & tempered	High disturbances	Zone 3	Zone 2	Zone 1
			Low disturbances	Zone 1		
3	Triple glazed	Float & tempered		Zone 1		
4	Double glazed with Security film	Float with Security film		Zone 1		
5	Single and multi-glazed	Laminated		Zone 1		

AD700 & AD700-AM installation guidance



■ Technical Specifications	AD700	AD700-AM
Supply voltage - Voltage monitoring	9.0 … 15.0 VDC (12 V nom.)	9.0 … 15.0 VDC (12 V nom.)
Current consumption - Quiescent - Alarm	16mA 14mA	30mA 28mA
Alarm output - Normally closed relay (opens on alarm)	100 VDC / 100 mA	
Tamper (cover removal)	35 VDC / 50 mA	
Anti-mask contact	50 VDC / 50 mA	
Alarm indication	Red LED	
Housing material	ABS plastic, white	
Dimensions (h x w x d) in mm	100 x 60 x 32	
Coverage area - Range - Size of the monitoring surface - Approved glass type	 Max. 9.0 m 165° Max. 6 m x 6 m. Min 0.3m x 0.3m Float glass (standard window glass) 4mm Laminated P2, 4mm + 4mm	
Ambient conditions - Operation temperature - Storage temperature - Humidity (DIN40040) - Environmental class	 +5 … +40° C +5 … +40° C < 93 % RH, non-condensing EN50130-5:2011, Class 1	
Approvals	VdS Class B, no. G 104512 INCERT B-582-0017	INCERT B-582-0017

Options

Acoustic tester and calibrator

The ADT700 is a unique tool for commissioning, testing and calibrating the functions of the detectors.
The ADT700 sends out a frequency spectrum, a number of signals with a specific frequencies and amplitude. The acoustic signals in the room from the ADT700 are recorded by the AD700, AD700-AM with a wide band microphone. The signals are processed and evaluated. The microprocessors compensate for the early reflections and select the best algorithms for the position of the detector to ensure maximum detection capability.

■ Technical Specifications	
Weight	743g
Dimensions (L x W x H)	175 x 125 x 55mm
Article number	S54535-Z110-A100

Ordering Information

Type	Art.-No.	Description	Weight
AD700	S54535-Z124-A100	Glass break detector	60g
AD700-AM	S54535-Z114-A100	Glass break detector, anti-mask	60g
ADT700	S54535-Z110-A100	Audio glass break tester	743g

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