ViTRON

Engineer's Specifications

The contractor shall provide acoustic glass-break detectors that employ microprocessor based digital signal processing technology. Detection shall be based upon pattern recognition analysis of the characteristic acoustic frequencies and sequences of framed pane glass breakage. The detectors shall provide accurate detection of breakage of plate, laminated, wired, and tempered glass, while ignoring false alarm sounds such as non-pane glass breakage, ringing type sounds. Glass breakage shall be detectable over wide variations in frame construction, glass strength, room acoustics, and for glass windows or doors covered by blinds or curtains.

The detectors shall be "Adjustment Free" to eliminate the "human error" and simplify the installation. Each detector's sensitivity shall be individually calibrated during production. Detection range shall be up to 9 meters (30 ft). Memory latch indication shall be available.

Installation flexibility of the detector shall be high; flush mounted, surface mounted or swivel mounted, on any wall or ceiling. An optional swivel bracket shall be available enabling optimal mounting and performance in any environment.

A glass-break tester shall be used to verify proper installation of the detectors. An audible coded message from the tester shall put the detector remotely into test mode, without the need to open the detector unit. This tester shall be able to generate breakage sounds of plate, tempered and wired/laminated glass panes.

Continuous "dead microphone" supervision test shall be performed by monitoring for environmental sounds. A suspected dead microphone shall be indicated by a flashing LED, after 24 hours of complete silence.