

Smoke detector Genius H and Genius Hx

- Permanently fitted 10-year battery
- Real-alarm guarantee
- VdS-approved in compliance with DIN EN14604
- Application in accordance with DIN 14676
- Complies with the requirements of the state building regulations
- Single-hole or two-hole mounting
- Adhesive mounting (VdS-approved)
- Dismantling detection (seal)
- «Battery Low» signal suppressed during night hours
- Alarm memory
- Dirt/dust compensation
- Muting circuit
- Genius Hx: interface for radio module
- Genius Hx: second battery for radio module
- Genius Hx: difficult ambient conditions such as frost-free cellars and attics, stairways



Application

The Genius H and Genius Hx smoke detectors are used for the early detection of smoke in private homes or in buildings used for similar residential purposes. They give people an early warning in case of danger, with the integrated hooter providing an acoustic alarm.

Mounting

The smoke detectors are supplied with a base designed for both single-hole and two-hole screw mounting. The base is supplied with a small fixing pad to prevent the base from turning when the smoke detector is screwed into place in single-hole mounting. This small fixing pad is used exclusively to secure the base for easier screw mounting.

Adhesive mounting (accessories)

As an alternative to screw mounting the Genius H and Genius Hx smoke detectors can also be secured to the ceiling using our adhesive pad. The adhesive pad is VdS-tested and -approved.

Automatic activation/deactivation

The base of the smoke detector contains a magnet which automatically activates the smoke detector when the detector is screwed into place and triggers the operating test. When the smoke detector is unscrewed from its base, the smoke detector automatically switches itself off after 5 minutes. When the smoke detector is removed, all currently pending events are acknowledged at the same time.

Dirt/dust compensation

The smoke detectors permanently monitor their sampling chamber for dirt/dust. If dirt particles are detected inside the sampling chamber, the detectors adjust their alarm threshold; so the spacing to the basic signal remains the same. This means that the smoke detector does not become more sensitive due to dirt or dust. The service life of the smoke detectors is vastly increased as a result.

Dirt/dust forecast

By updating their alarm threshold, the smoke detectors are able to determine the condition of their sampling chamber. During the annual operating test they automatically predict whether they are capable of functioning for another 15 months at the current level of dirt/dust contamination. If the forecast shows that the dirt/dust levels in the sampling chamber are already so high that the

alarm threshold can no longer be re-adjusted, the function test will be negative – i.e. there will be no acoustic signalling.

Operating test

The correct operation of the smoke detectors should be checked at least once a year. The operating test is triggered by actuating the test button on the smoke detector. The operating test checks the following:

- battery
- hooter
- dirt/dust contamination forecast
- processor
- sampling chamber

Intelligent operating levels

The test button on the smoke detectors is used to trigger status alerts such as acknowledge fault, mute alarm or operating test. Briefly pressing the test button once is sufficient to trigger the right function depending on the status of the smoke detector.

Integrated real-time clock

The integrated real-time clock is used to suppress status messages such as battery low during night hours between 10 pm and 6 am (winter time, CET). The visual status display is dimmed during night hours.

Frequency-optimised signal tone

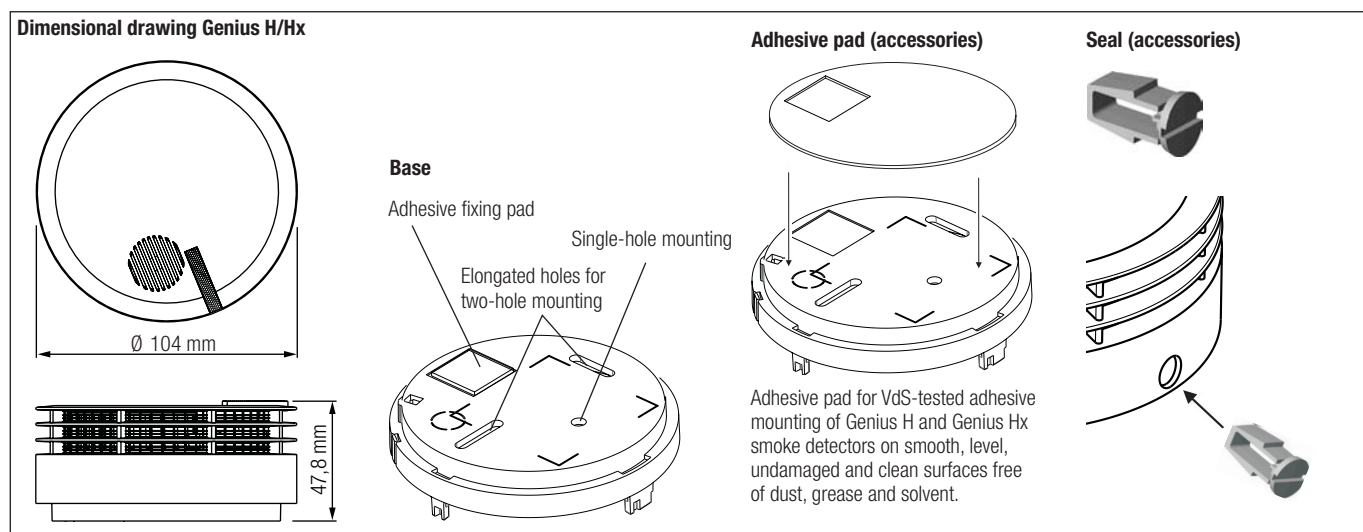
If the smoke detector detects smoke, it signals the incident using a frequency-optimised signal tone with a volume of at least 85 dB. The variation in pitch achieved by the high and low frequencies of the signal tone ensures that the human ear is certain to perceive them in the event of an alarm.

Genius H/Hx technical data

G 209178/applied for	VdS device approval for Genius H/Hx
3.6 V/2.2 Ah lithium	power supply, thionyl chloride, permanently fitted
Typically 10 years	battery life
Alarm	frequency-optimised for the human ear
85 dB (A) (3 m)	sound pressure
Day/night detection	automatic using real-time clock
Theft protection/removal detection	optional, by means of a seal
0 °C to +55 °C	ambient operating temperature
-10 °C to +60 °C	storage temperature
Max. 70% rel. humidity	ambient condition: continuous humidity, without condensation
Automatic adjustment	by means of an integrated temperature sensor
IP 40	protection class
Ral 9010	pure white, similar
PC-ABS	material
48 × 104 mm	dimensions (H × Ø)
143 g/162 g	Genius H/Genius Hx weight
Environmentally compliant disposal	regulated via EAR

Additional technical data for Genius Hx

3.6 V/2.2 Ah	power supply: additional battery for external modules, e.g. radio module permanently fitted inside the detector
Interface	for communication and power supply of external modules such as Basic or Pro radio module
Processor	larger memory than in the Genius H
Event memory	from radio module and smoke detector with time stamp



Sabotage and theft protection

Each smoke detector can be protected by means of a seal (accessories). The seal prevents the smoke detector from simply being unscrewed from its base. Removing the smoke detector from its base by force (sabotage) will break off the seal.

Genius Hx exclusively

Interface for connecting radio modules. Genius Hx has an additional interface for the Basic or Pro radio modules. Genius Hx is equipped with a second, permanently fitted battery to power the radio modules.

The properties of the two radio modules are as follows:

- 10-year long-life battery
- one-man maintenance
- integrated range test
- additional 70 coded lines on the Pro radio module
- radio link monitoring
- dismantling detection
- 6 collective alarm lines

Order data

Genius H	239 151
Genius Hx	239 160

Accessories

Set of adhesive pads for Genius H/Hx, 10 pads	31-4100001-01-02
Set of adhesive pads for Genius H/Hx, 100 pads	31-4100001-02-02
Set of seals for Genius H/Hx, 32 seals	31-4100003-01-01

We reserve the rights to implement technical changes and modify delivery options.