



## X10/H10 LoRaWAN™ SMOKE & HEAT ALARM IN A CLASS OF ITS OWN

If you want to install sensors with robust performance, you should consider the X10 & H10 range. No need to think about changing batteries or false alarms. If you want to monitor the units and ensure that they are in operation, you should take a closer look at our LoRaWAN™ compatible units, connected 24/7 with a 10 year battery operation and a 10 year product warranty.

The smoke alarm X10 detects smoke and soot particles. No matter if the fire occurs in electrical equipment, in textiles, porous materials or if its burning in flammable liquids, the X10 unit will sound an alarm.

Easy to mount with its small size, but still not too small to handle the most important thing of all, the testing.

The large test button facilitates regular testing.

If you want to use an heat alarm, you should choose the H10 sensor.

If you want to know more about your sensors, you can use LoRa to monitor that the units are mounted, tested and in operational mode.



X10



H10

# X10/H10 Lora

Enabling cost-effective monitoring of installed sensors, our smoke detector X10 and heat detector H10 are now available with a newly developed LoRaWAN™ card. Lora characterizes short transmission packets over long distances with low energy consumption.

**X10/H10 Lora has a smoke or heat warning plus temperature sensing.** The Lora card sends a status update (heartbeat) once a day with the latest events including operating time (uptime), the current battery voltage from the radio card and 12 temperature values per day. The data communication is coded with Protocol Buffers från Google Inc., to minimize the data transfer and to enable 10 years operating time for the Lora unit, in the same way the sensors are equipped today.

The sensors are CE approved and have CPR certificates and the radio sockets will be CE approved and LoRaWAN certified. The reason for the extra temperature sensing is that you can go from a Class-B alarm to a Class-A. If there is a smoke alarm with an unchanged low room temperature, it may be a false alarm, caused by the tenant himself. If two independent alarms (Smoke warning from the sensor & Temperature sensing from Radio socket) occurs, this can be an indication of a sharp Class-A alarm.

## X10 Optical smoke sensor Lora

Optical smoke alarm with hush function and built-in 10 year lithium battery. Large and clear test button. The sensor is activated when attached to its radio base and deactivated when dismantled. Built-in locking latch to avoid unwanted disassembly. The smoke alarm sends codes via the LoRa card for test button, alarm, low battery and technical fault.

### Specifikation:

Article number	10330
Article name	X10 Optical smoke sensor Lora
Battery type Sensor	3V built-in lithium CR123A
Battery type Lora Radio	3.6V changeable lithium ER14505
Battery life time and Warranty	10 years
Approval	CE EN 14604:2005+LoRaWAN™
Characters Lora Radio	Temperature, battery voltage
Characters Sensor	Test, alarm, low battery & fault
Sound sensor	Piezo, 85dB vid 3m
Manual	Swedish & English
Assembly	Screw & plug
Dimensions	Ø 90 x 58 mm
Hush function	10min
Ambient temperature	0°C till 45°C
Type of sensor	Optical smoke alarm
Weight	148 gram
Can be screen printed	Yes
Packaging	10 pc/box

### Lora Data:

Frequency band	EU868MHz
Lora network	Class A
Activation type	OTAA
Work cycle	0,1%, 1%, 10% dep on sub band
Data speed	DR0-DR6
Transmission power	2-16dBm
LoRa version	1.0.3 / 1.0.4

## H10 Heat sensor Lora

Heat sensor 57 °C with hush function and built-in 10 year lithium battery. Large and clear test button. The sensor is activated when attached to its radio base and deactivated when dismantled. Built-in locking latch to avoid unwanted disassembly. The heat sensor sends codes via the LoRa card for test button, alarm, low battery and technical fault.

### Specifikation:

Article number	10334
Article name	H10 Heat sensor Lora
Battery type Sensor	3V built-in lithium CR123A
Battery type Lora Radio	3.6V changeable lithium ER14505
Battery life time and Warranty	10 years
Approval	CE EN 14604:2005+LoRaWAN™
Characters Lora Radio	Temperature, battery voltage
Characters Sensor	Test, alarm, low battery & fault
Sound sensor	Piezo, 85dB vid 3m
Manual	Swedish & English
Assembly	Screw & plug
Dimensions	Ø 90 x 72 mm
Hush function	10min
Ambient temperature	0°C till 45°C
Type of sensor	Heat alarm 57°C
Weight	140 gram
Can be screen printed	Yes, limited space
Packaging	10 pc/box

### Lora Data:

Frequency band	EU868MHz
Lora network	Class A
Activation type	OTAA
Work cycle	0,1%, 1%, 10% dep on sub band
Data speed	DR0-DR6
Transmission power	2-16dBm
LoRa version	1.0.3 / 1.0.4

