

Warnings



-The alarm and detectors should be installed in a place protected from vibrations, water and corrosive gases, where the ambient temperature does not exceed the value indicated in the technical data. The station should be installed in a place where the regular presence of people who can alert to the presence of alarms is guaranteed.

-Neither the alarm or the push-button are suitable for areas classified as potentially explosive.

Wiring



Always disconnect the power supply to do the wiring.

The wiring between the detector/button and the station should **NEVER** be installed in a conduit together with power, control or feeder cables.

The power supply circuit should be equipped with a switch for its disconnection of at least 2 A, 230 V, situated near the appliance. The power supply cable should be H05VV-F or NYM 1x16/3 type. The section to be used will depend on local regulations, but should in no case be less than 1.5 mm².

Cables for wiring the relay contact should have an adequate section depending on the unit to be connected.

The 120 / 230V~ wiring must be kept clear of any other external element.

Make sure you have connected the batteries before starting-up the unit.

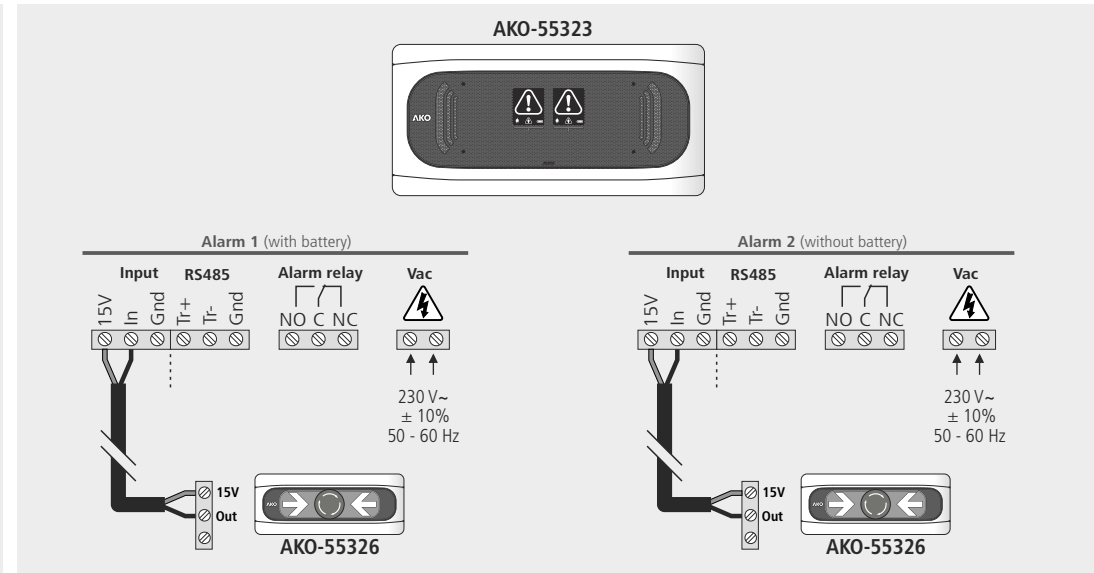
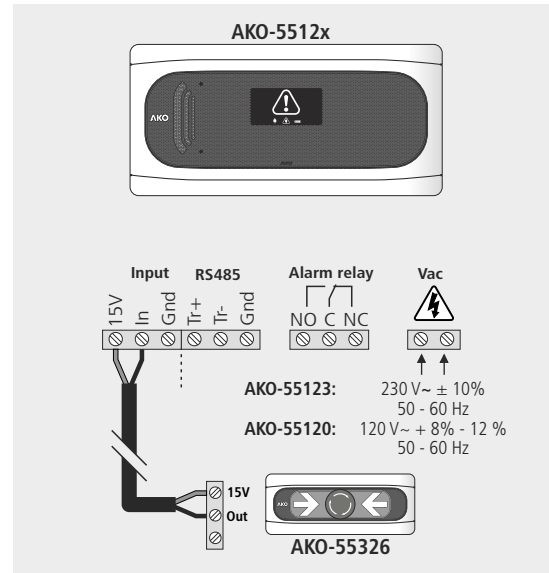
Pursuant to **RD 138/2011 IF12 (SP)** and standard **EN-378-1 (EU)**, the Alarm's power supply must come from a different circuit than the one used for the cooling and ventilation system.



AKO-55323

AKO-55123

AKO-55120



Technical specifications

Power supply	AKO-55323 / AKO-55123	230 V~ ± 10% - 50/60 Hz
	AKO-55120	120 V~ + 8% - 12% - 50/60 Hz
Maximum input power	AKO-55323 Alarm 1 / Alarm 2	3.1 VA
	AKO-55123	3.1 VA
	AKO-55120	5 VA
Accumulators		Ni-MH 800 mAh
Lighting + alarm duration		> 10 Hours (*)
No. of inputs	AKO-55323 Alarm 1 / Alarm 2	1
	AKO-55123 / AKO-55120	1
Compatibility of inputs		Pushbutton AKO-55326

Alarm relay	SPDT 230 Vac, 3 A, cos φ = 1
Working ambient temperature	-5 °C to 50 °C
Storage ambient temperature	-30 °C to 70 °C
Protection degree	IP 65
Installation category	II s/ EN 61010-1
Pollution degree	II s/ EN 61010-1
Double isolation between power supply, secondary circuit and relay output.	
Sound power	90 dB(A) at 1 metre
MODBUS address	Shown on label
Dimensions	290 mm (W) x 141 mm (H) x 84.4 mm (D)
Maximum distance from push-button wiring	300 mm

Configuration

The unit is supplied as ready-to-use; not configuration is required.

Operation

Without alarms

The input indicators are green.

Alarm active

The station emits an alarm sound, shows the affected input(s) in red, the general alarm indicator lights up and the visual alarm flashes.

Wiring error/malfunction

The station emits 3 short beeps every two minutes and the input indicator affected flashes red.

Alarm tones:

- Trapped person alarm: Bitonal sound.
- Wiring error/malfunction: 3 short tones every 2 minutes.

Relays

See table enclosed

Status	Alarm relay
Without active alarms With power supply Battery connected	
With power supply Battery disconnected	
Without power supply/ With battery	
Without power supply/ Without battery	
Without power supply/ Without battery	
Detector/ wiring fault	



In the event of a power failure, the alarm will continue to work until the batteries run out.

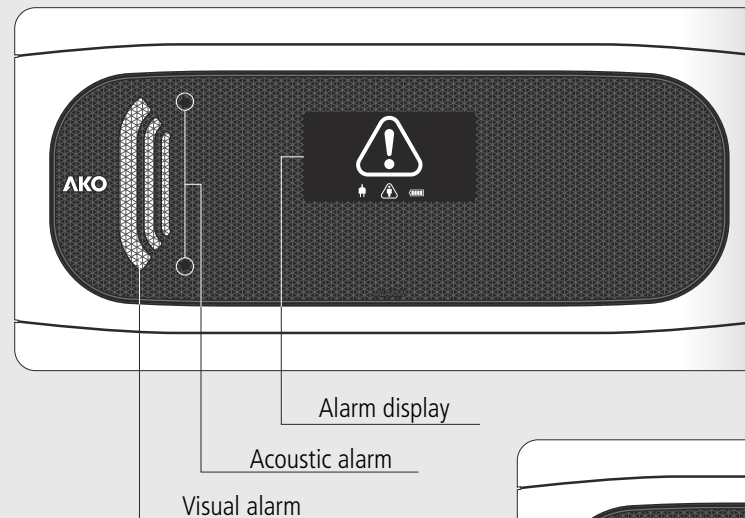
Maintenance

Clean the surface of the unit with a soft cloth, water and soap.

Do not use abrasive detergents, petrol, alcohol or solvents, as this might damage the sensor.

Description

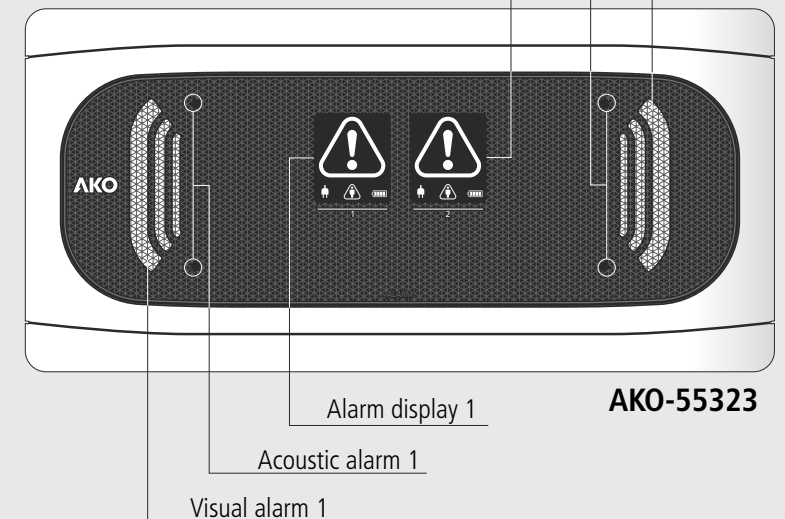
AKO-5512x



Visual alarm 2

Acoustic alarm 2

Alarm display 2



AKO-55323

Input indicator



Green constant: Trapped person in cold room store push-button.

Red flashing quickly: Malfunction/wiring fault in trapped person push-button.

Red flashing slowly: Push-button not detected or disconnected.

Red constant: Trapped person alarm active.

Power supply status



Green constant: Power supply at 230 V/120 V

Red flashing: Power supply to battery

General alarm indicator



Fixed: Alarm active.

Flashing: Malfunction/wiring fault in push-button.

Battery status



Green constant: Battery connected

Switched off: Battery disconnected