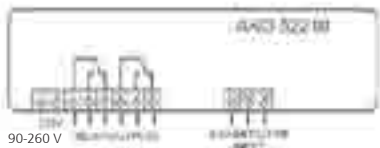


AKOELEC

Technology developed for the
protection and safety of people



CAMGas Permanent high-precision gas leak detector, EN 378-3 & ASHRAE-15:2004 Standards



90-260 V

It complies with EN 378-3 & ASHRAE-15:2004 Standards, that requires the installation of a fixed gas detection system in any premises with a concentration of over 25 kg freon gas (50 kg in the case of R17), which should have an optic and acoustic alarm both inside and outside the building, and the possibility of sending a signal in the case of an alarm for its remote monitoring.

Furthermore, the use of this device allows immediately detecting possible gas leaks with levels from 500 ppm, so minimising risks for people in occupied spaces and the economic impact from the loss of refrigerated gas. It also has a warning system in the event of a broken cable in the sensors, which are supplied with a calibration guarantee of 3 years.

Applications: machine rooms, cold storage rooms, sales rooms and preparation rooms

- 2 levels of screening: Pre-alarm 500 ppm and Alarm 1000 ppm
- Remote sensor. Maximum distance sensor 200 m
- 2 auxiliary relays to active remote alarms.
- Work environment sensor -20/50 °C
- It is not suitable for classified areas as potentially explosives zones.
- Detection of broken cable.

Detect following gases:

- Sensor A: R-404 A, R-507 A, R-22, R-23, R-422 D, R-422 A, R-434 A, R-437 A, R-408 A, R-403 B, R-124, R-407 A
- Sensor B: R-134 a, R-407 C, R-410 A, R-417 A, R-409 A, R-32
- NH3 Sensor Kit (available from the second quarter of 2012 year)

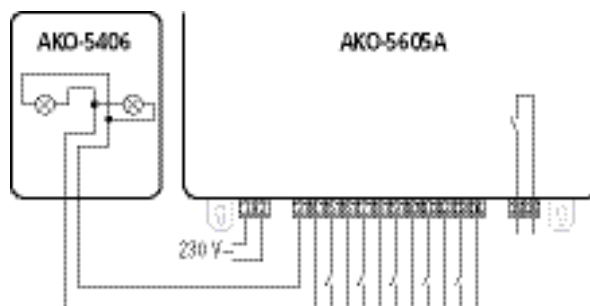
Reference	Description	Family	Pack
AKO-52201	Gas detection alarm + A sensor	4200	1 Unit
AKO-52202	Gas detection alarm + B sensor	4200	1 Unit
AKO-52203	Gas detection alarm + C sensor	4200	1 Unit
AKO-52210	Gas detection alarm (spare)	4200	1 Unit
AKO-52211	A sensor (spare)	4200	1 Unit
AKO-52212	B sensor (spare)	4200	1 Unit
AKO-52213	C sensor (spare)	4200	1 Unit

Centralisation alarm for 5 input circuits



Autonomy over one hour with automatic Ni-Cd battery recharging.

- When one of the circuits is closed, the acoustic alarm is activated and also one of the 5 optical indications to show which circuit is sending the signal. The acoustic may be stopped, but not the optical, which remains active and in the memory until the signal circuit is opened.
- The units may be installed adjacently to form centres of up to 5, 10, 15, etc. signals.
- Power supply 230 V \pm 10%, 50/60 Hz.



Reference	Description	Family	Pack
AKO-5605A	Centralizer for 5 input circuits	4200	1 Unit

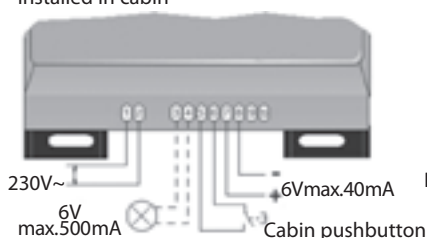
Alarms with emergency lighting for lifts, AKO-5404 series



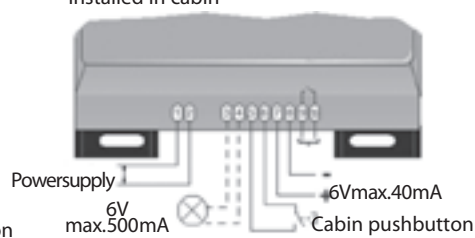
These units comply with EN 81-1.

- Own autonomy of over one hour with automatic Ni-Cd battery recharging.
- Output for rescue lighting 6 V, 500 mA.
- Output for permanent supply 6 V, 40 mA.
- Noise level over 90 decibels at 1 m.
- Dimensions 212 x 139 x 52 mm.
- The units with auxiliary relay allow alarms to be activated remotely in the AKO-5605A centralizer.

AKO-5404C
Installed in cabin



AKO-54041A 230V or AKO-54043 120V
Installed in cabin



Reference	Description	Family	Pack
AKO-5404C	Power supply unit 230 V without relay output	4400	12 Units
AKO-54041A	Power supply unit 230 V with relay output	4400	12 Units
AKO-54043	Power supply unit 120 V with relay output	4400	12 Units

Alarms with emergency lighting for lifts, loudspeaker or siren type



AKO-5405A



AKO-5409A

These units comply with EN 81-1.

- Own autonomy of over one hour with automatic battery recharging.
- Output for rescue lighting 6 V, 500 mA.
- Output for permanent supply 6 V, 40 mA.
- Noise level over 90 decibels at 1 m.
- Dimensions 268 x 160 x 116 mm.
- With an auxiliary relay allowing alarms to be activated remotely in the AKO-5605A centralizer

Reference	Description	Family	Pack
AKO-5405A	Unit 230V, output 6V, alarm with loudspeaker	4400	12 Units
AKO-5409A	Unit 230V, output 12V, alarm with siren	4400	8 Units

Panels for rescue lighting in cabin, external power supply



These lights panels supplied by alarms come on automatically in the event of loss of electricity, carrying out the function of rescue lighting.

- Material in self-extinguishing polycarbonate V 0 making them very secure against vandalism.
- Dimensions: 111 x 77 x 26 mm.

Reference	Description	Family	Pack
AKO-5406	Surface panel with 2 6 V lamps	4400	24 Units
AKO-54061	Surface panel with 2 12 V lamps	4400	12 Units
AKO-549505	Lamp 6V, 0,20 A, spare	4400	25 Units (B)

(B) Minimum, indivisible pack units.

Alarm with emergency lighting for lifts, for fluorescent lamps from 18 to 30 W



These units comply with EN 81-1.

- Own autonomy of over one hour with automatic Ni-Cd battery recharging.
- Rescue lighting output for system with fluorescent tube.
- Output for permanent supply 12 V, 40 mA.
- With an auxiliary relay allowing alarms to be activated remotely in the AKO-5605A centralizer.

Reference	Description	Family	Pack
AKO-5413	Power supply unit for fluorescent lamps from 18 to 30 W	4400	6 Units

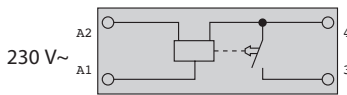
Phase detector relays Fault or imbalance



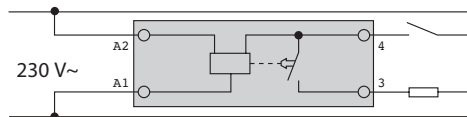
- The same device can be used
- They detect a percentage voltage drop of the three phases.
- They detect a percentage voltage drop of one of the phases.
- They detect phase inversion.
- Contact triggering delay between 1 and 2 sec.
- Maximum contact intensity 8 A, 250 V~, cos ϕ =1.
- DIN 42880 box dimensions 90 x 71 x 58 mm.
- Combustibility degree V 0 according to UL94.

Reference	Description	Family	Pack
AKO-5442B	Detector relay for 400 V, 50 Hz and 230 V, 50 Hz	4240	12 Units
AKO-54426	Detector relay for 380 V, 60 Hz and 208 V, 60 Hz	4240	6 Units

Timer relays for compressor response delay



AKO-5256A



AKO-5255A

Reference	Description	Family	Pack
AKO-5255A	Delay since last disconnection adj. from 50" to 300"	4240	10 Units
AKO-5256A	Response delay, adjustable from 30" to 300"	4240	10 Units

Transparent protectors for fluorescent lamps

Protection of food from contamination.



Reference	Description	Family	Pack
AKO-TUBO 14T	For fluorescent lamp 14 W, Ø 16 mm, 549 mm length	4100	125 Units (B)
AKO-TUBO 15T	For fluorescent lamp 15 W, Ø 26 mm, 438 mm length	4100	25 Units (B)
AKO-TUBO 18T	For fluorescent lamp 18 W, Ø 26 mm, 590 mm length	4100	25 Units (B)
AKO-TUBO 20T	For fluorescent lamp 20 W, Ø 38 mm, 590 mm length	4100	25 Units (B)
AKO-TUBO 21T	For fluorescent lamp 21 W, Ø 16 mm, 849 mm length	4100	125 Units (B)
AKO-TUBO 28T	For fluorescent lamp 28 W, Ø 16 mm, 1149 mm length	4100	125 Units (B)
AKO-TUBO 35T	For fluorescent lamp 35 W, Ø 16 mm, 1449 mm length	4100	125 Units (B)
AKO-TUBO 36T	For fluorescent lamp 36 W, Ø 26 mm, 1200 mm length	4100	25 Units (B)
AKO-TUBO 40T	For fluorescent lamp 40 W, Ø 38 mm, 1200 mm length	4100	25 Units (B)
AKO-TUBO 58T	For fluorescent lamp 58 W, Ø 26 mm, 1500 mm length	4100	25 Units (B)
AKO-TUBO 65T	For fluorescent lamp 65 W, Ø 38 mm, 1500 mm length	4100	25 Units (B)
AKO-TUBO 70T	For fluorescent lamp 70 W, Ø 26 mm, 1740 mm length	4100	25 Units (B)
AKO-617089	For fluorescent lamp 30 W, Ø 26 mm, 895 mm length	4100	25 Units (B)
AKO-617097	For fluorescent lamp 25 W, Ø 26 mm, 970 mm length	4100	25 Units (B)
AKO-61904	For fluorescent lamp 25 W, Ø 26 mm, 818 mm length	4100	25 Units (B)
AKO-619901	White stopper for AKO-TUBOS diam. 26 mm	4100	50 Units (B)
AKO-619902	White stopper for AKO-TUBOS diam. 38 mm	4100	50 Units (B)
AKO-619907	White stopper for AKO-TUBOS diam. 16 mm	4100	50 Units (B)

(B) Minimum, indivisible pack units.

Colour protectors for fluorescent lamps

They allow fluorescent lamps to be transformed into colour tubes.



Reference	Description	Family	Pack
AKO-TUBO 18B	Blue For fluorescent lamp 18 W, Ø 26 mm, 590 mm length	4100	25 Units (B)
AKO-TUBO 18G	Amber For fluorescent lamp 18 W, Ø 26 mm, 590 mm length	4100	25 Units (B)
AKO-TUBO 18R	Red For fluorescent lamp 18 W, Ø 26 mm, 590 mm length	4100	25 Units (B)
AKO-TUBO 18V	Green For fluorescent lamp 18 W, Ø 26 mm, 590 mm length	4100	25 Units (B)
AKO-TUBO 36B	Blue For fluorescent lamp 36 W, Ø 26 mm, 1200 mm length	4100	25 Units (B)
AKO-TUBO 36G	Amber For fluorescent lamp 36 W, Ø 26 mm, 1200 mm length	4100	25 Units (B)
AKO-TUBO 36R	Red For fluorescent lamp 36 W, Ø 26 mm, 1200 mm length	4100	25 Units (B)
AKO-TUBO 36V	Green For fluorescent lamp 36 W, Ø 26 mm, 1200 mm length	4100	25 Units (B)
AKO-TUBO 58B	Blue For fluorescent lamp 58 W, Ø 26 mm, 1500 mm length	4100	25 Units (B)
AKO-TUBO 58G	Amber For fluorescent lamp 58 W, Ø 26 mm, 1500 mm length	4100	25 Units (B)
AKO-TUBO 58R	Red For fluorescent lamp 58 W, Ø 26 mm, 1500 mm length	4100	25 Units (B)
AKO-TUBO 58V	Green For fluorescent lamp 58 W, Ø 26 mm, 1500 mm length	4100	25 Units (B)

(B) Minimum, indivisible pack units.