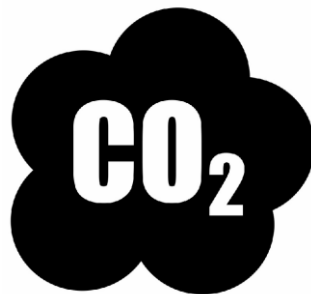


AKOGAS 2023

DAHL RANGE



CO2 DETECTION RANGE K4440010 (AKO-57615)



1. High protection against humidity IP68, the highest on the market
2. Infrared technology
3. **Autonomous operation** (power supply 12-30Vdc) **or connected to AKO alarm station** (230V)
4. **2 relays** for pre-alarm and alarm
5. **4-20mA Output**
6. **Fixed parameters:** 4.000-8.000PPM or 5.000-10.000PPM
7. **MODBUS** communication for **remote monitoring with AKONET.Cloud** or 3rd party systems
8. Sensor lifespan : **3-4 years**

A2L DETECTION RANGE K4440011 (AKO-57624)



SMALL SIZE

Only 10,7 x 8,5 x 3,9cm

R32, R454A, R454C, R455A & R1234yf

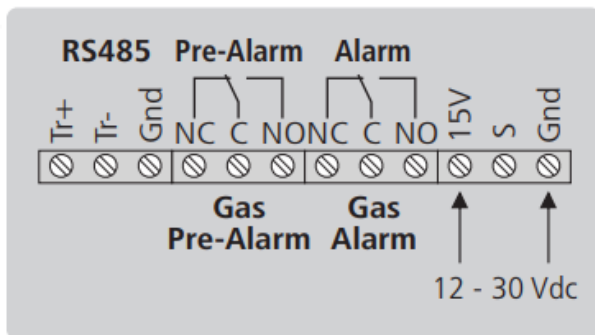
1. High protection against humidity IP68, the highest on the market
2. Semi-conductor technology
3. **Autonomous operation** (power supply 12-30Vdc) **or connected to AKO alarm station** (230V)
4. **1 relay** for pre-alarm and alarm
5. **4-20mA Output**
6. **Fixed parameters:** 1.000-1.500PPM or 2.000-4.000PPM
7. **MODBUS** communication for **remote monitoring with AKONET.Cloud** or 3rd party systems
8. Sensor lifespan : **3-4 years**

QUICK GUIDE: <https://help.ako.com/assets/uploads/355762402-3.pdf>

DETECTION RANGE FROM AKO

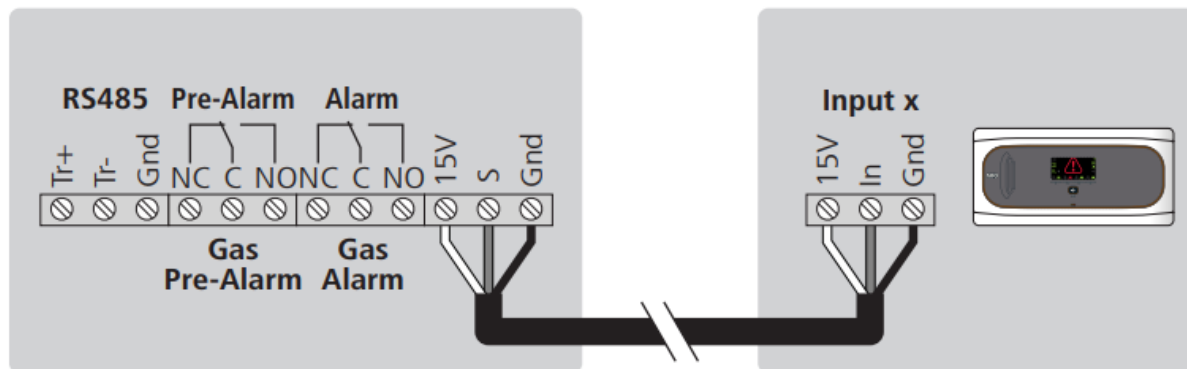
Operating Modes

Autonomous operation (12-30Vdc)



Connected to external alarm station

- K4440008 or K4440009 (only gas)
- K4440016 or K4440015 (gas + push buttons from trapped person)



DETECTION RANGE FROM AKO

External Alarm Station

External alarm station for 1 detector

K4440008 (AKO-55624)



1 input only for AKO gas detectors (all models)
3 relays including one for GAS SYSTEM FAILURE
MODBUS communication
Sound & visual alarm
Power supply **100-240V**

External alarm station for 4 detectors

K4440009 (AKO-55724)



4 inputs only for AKO gas detectors (all models)
For **2 or 4 zones**
6 relays including one for GAS SYSTEM FAILURE
MODBUS communication
Sound & visual alarm
Power supply **100-240V**



DETECTION RANGE FROM AKO

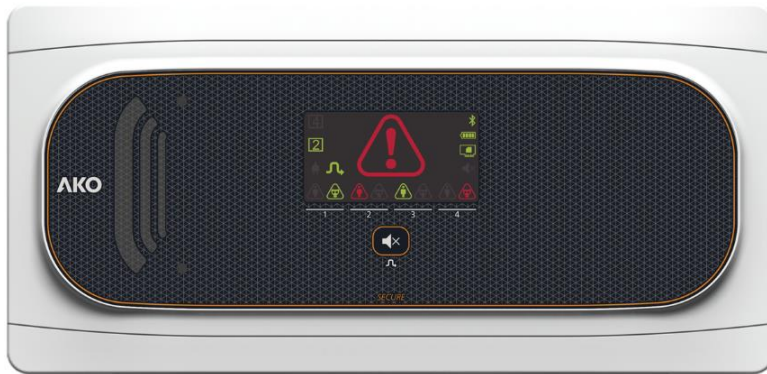
External Alarm Station

External alarm station multipurpose K4440016 (AKO-555241)



2 inputs compatible with for AKO gas detectors and/or
pushbuttons for trapped person
4 relays including one for GAS SYSTEM FAILURE
MODBUS communication
Sound & visual alarm
Power supply **100-240V**

External alarm station multipurpose K4440015 (AKO-555242)



4 inputs compatible with for AKO gas detectors (all models) and/or
pushbuttons for trapped person
6 relays including one for GAS SYSTEM FAILURE
MODBUS communication
Sound & visual alarm
Power supply **100-240V**



DETECTION RANGE FROM AKO

Outputs to send an alarm

OUTPUTS	Detectors (1)	External alarm (2)
Relay pre-alarm	YES	YES
Relay alarm	YES	YES
Relay for Gas Failure	YES	YES
4-20mA output	YES	NO
MODBUS communication	YES	YES

(1) All range of detectors

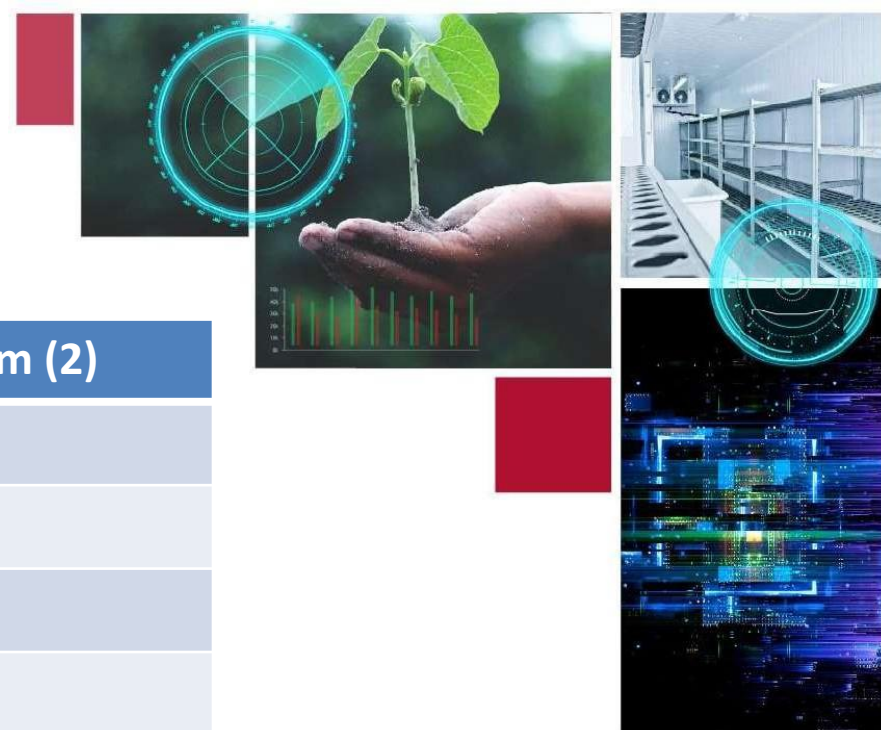
(2) External alarms K4440015, 0016, 0009, 0008

K4440015 / K4440016

USER GUIDE: <https://help.ako.com/assets/uploads/355552402-3.pdf>

K4440008 / K4440009

USER GUIDE: <https://help.ako.com/assets/uploads/355572402-3.pdf>



CONNECTED PRODUCTS FROM AKO

Monitoring via AKONET.Cloud

Monitoring your system via **AKONET.Cloud**, you will be able to view at all times the record of the concentration of gas in the atmosphere and existing gas leaks. As if that wasn't enough, you will have highly relevant indicators to know **WHEN, WHERE AND HOW MUCH** gas is leaking, facilitating an early repair and efficient maintenance tasks.

The system will notify you with an alert if there are any problems, and you will be able to carry out efficient preventive maintenance thanks to the recording of data, indicators and reports, while also minimising your system's maintenance costs.

KPI's

- 1 Type of gas
- 2 Concentration of gas in the atmosphere
- 3 ICF: gas load in % of the total gas of the system that is being lost in real time
- 4 Speed at which the leak is produced, in g/h
- 5 IPF – **Potential gas leakage rate**: estimate of the percentage of gas that would be lost over a year in Kg/Year, if it is not acted on.
- 6 TGCI – **Time Gas Concentration Index**: time intervals in which most of the gas leaks take place.
- 7 T eq CO₂: **estimate in tonnes of CO₂** that would be emitted in a full year as a result of the leak if it is not acted on.



AKOGAS 2023

Full range of gas leak detection