

AKOGAS

NDIR

Infrared Transmitter for HFC.

Precision and reliability to make your
business profitable



PATENTED SOLUTION
FOR REFRIGERANT
LEAK REDUCTION

AKO

www.ako.com

AKO
www.ako.com



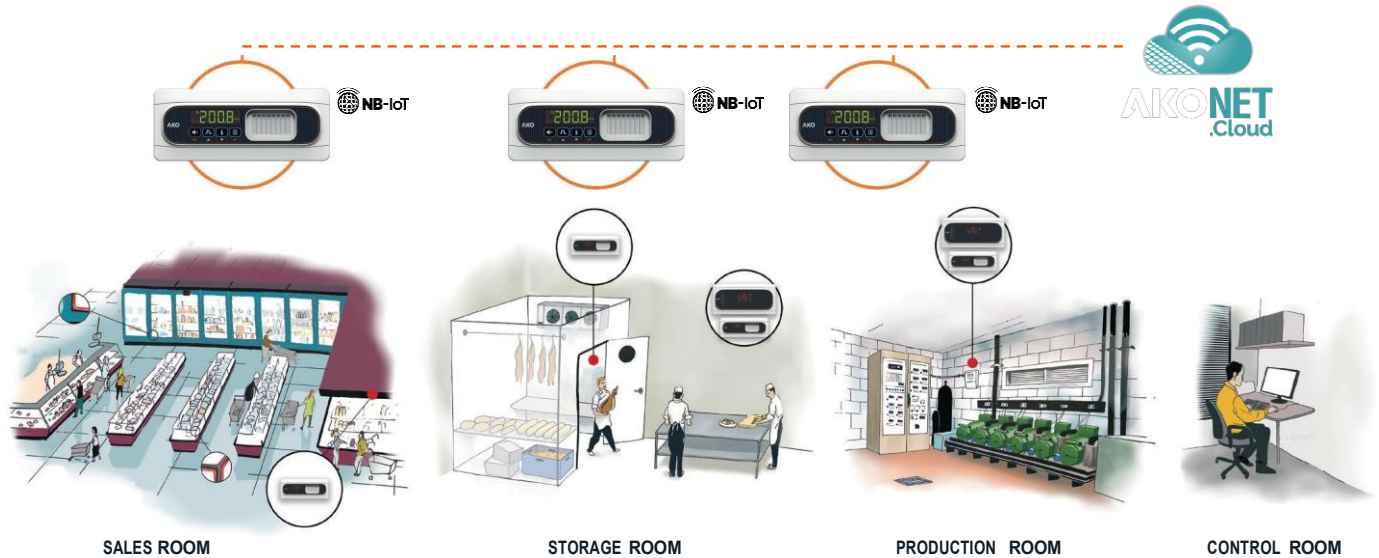
AKO

AKOGAS

The new range of infrared transmitters for gas leaks by AKO is the best solution for reducing leaks by up to 95% in your refrigeration facility. This is thanks to its early detection

system and high precision, thereby preventing operating costs resulting from gas leaks and allowing monitoring and logging thanks to its integrated NBloT connectivity.

AKOGAS is specially designed for early detection of gases and, as such, helps you to drastically reduce the operating costs of your facility since it can be installed in any part of it:



EFFICIENCY IN THE EARLY DETECTION OF GAS LEAKS

With AKOGAS NDIR you can **SAVE** on:

- Charges of up refrigerants (Direct Saving)
- Energy consumption (Indirect Saving)
- Reduced maintenance costs
- Extend the service life of the facility parts

A facility operating at 80% of its capacity of refrigerant gas increases its electric consumption by 15%, in addition to increasing stress in the refrigerating circuit components, thereby reducing its service life.



VERSATILE AND ROBUST

- Installation flexibility. It can be installed for autonomous operation or connected directly to monitoring system or via AKOGAS Central.
- IP68 protection and an operating temperature of -30 °C to 40 °C. It can be used in negative cold store rooms covering all possible applications.
- Its user interface facilitates use and diagnosis, thereby minimizing after-sales calls.



MAXIMUM PRECISION AND SELECTIVITY

- Broadband HFC Detectors with highly selective, therefore preventing false alarms due to other gases, solvents or cleaning products.
- Precision Over 95% in gas leak detection.
- Two detection levels, adjustable from 1 ppm to 2.000 ppm.
- Equipped with Set Hold mode which prevents false alarms during the refrigerant charging process.



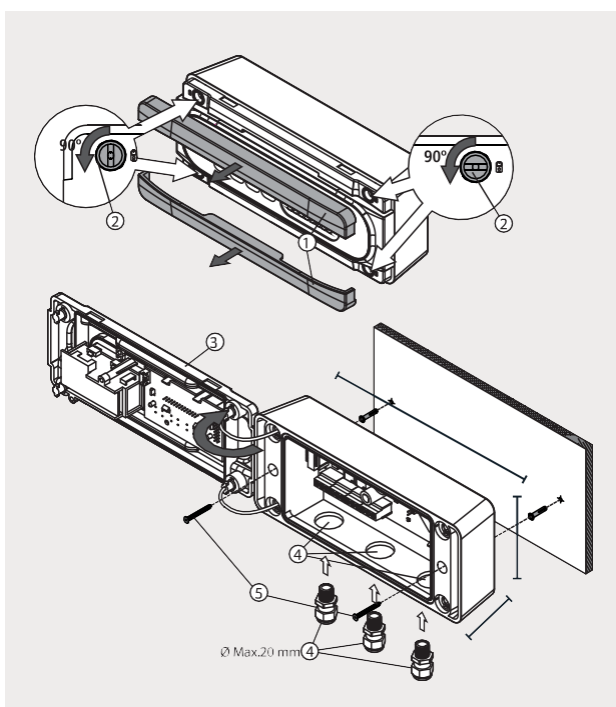
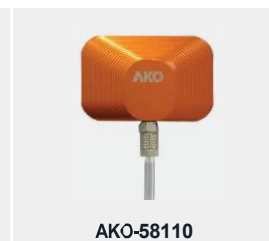
INCREASED CONNECTIVITY

- Integrated NBloT connectivity, providing cloud monitoring and data logging:
 - Gas leaks in ppm, lbs/year and % of load
 - Alarms and incidents.
 - Audits (changes in the equipment configuration)

AKO

VERSIONS AND REFERENCES

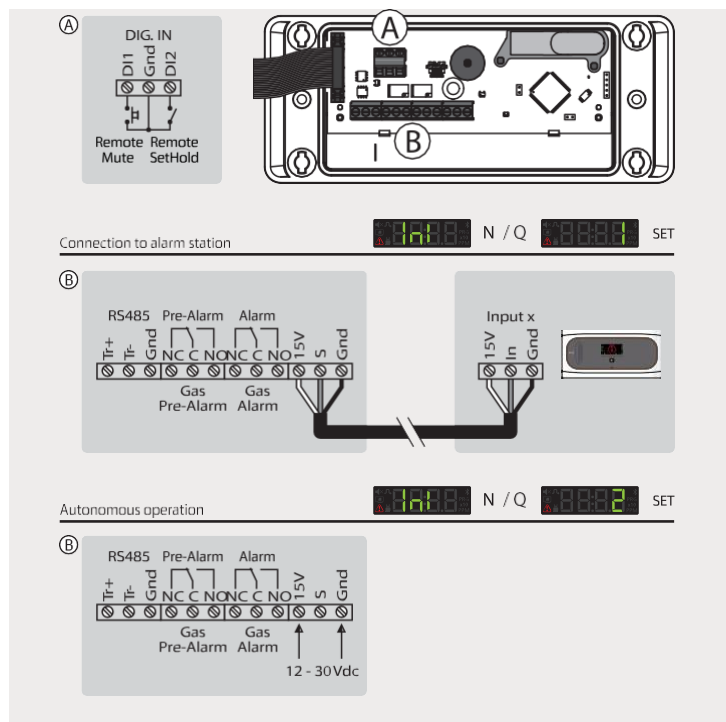
Models	Versions	Power supply
AKO-575400N	BROADBAND TRANSMITTER FOR HFC GASES WITH NBloT	12 - 30Vdc
AKO-575400NE	BROADBAND TRANSMITTER FOR HFC GASES WITH EXTERNAL ANTENNA AND NB-IOT	12 - 30Vdc
AKO-58120	TRANSMITTER PROTECTOR	
AKO-58110	CALIBRATION TOOL	-



TECHNICAL SPECIFICATIONS

Power supply	12-30 Vdc
Typical consumption	75 mA
Maximum	100 mA
Working ambient temperature	-30 °C to 40 °C
Storage ambient temperature	-30 °C to 60 °C
Maximum moisture range permitted	0 - 95 % HR (Without condensation)
Protection degree	IP68
Sensor type	NDIR (Non-Dispersive Infrared Technology)
Display range	0 – 2000 x1 ppm
EMC standard	EN61010
Dimensions	202 mm (W) x 82 mm (H) x 55.5 mm (D)

ELECTRICAL CONNECTIONS



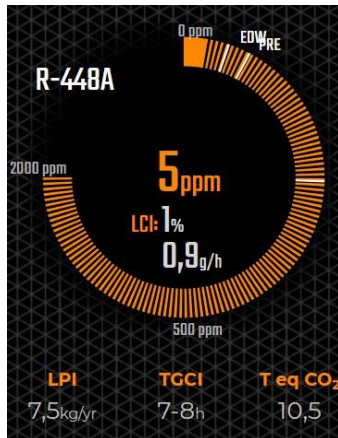
VERSIONS AND REFERENCES

MODEL	DESCRIPTION
AKO-575400N	Universal gas transmitter with NBloT comunicación for R-23 / R-32 / R-125 / R-134a / R-404A / R-407A / R-407F / R-410A / R-448A / R-449A / R-452A / R-455A / R-513A *(R-450A / R-442A / R-454A / R-454c / R-1234yf / R-1234ze / R-515b)
AKO-575400NE	Universal gas transmitter with NBloT communication and external antenna for R-23 / R-32 / R-125 / R-134a / R-404A / R-407A / R-407F / R-410A / R-448A / R-449A / R-452A / R-455A / R-513A *(R-450A / R-442A / R-454A / R-454c / R-1234yf / R-1234ze / R-515b)

AKOGAS NBIoT

A new horizon for usability and connectivity

Cloud monitored detection for minimizing refrigerant leaks



- Transmitter activity log.
- Continuous logging of gas leaks in ppm.
- Events and modification audits in its configuration.
- Summary of key data.
- Mobile configuration and parametrization.
- User interface extension.
- Sharing of devices for remote management.

BENEFITS

1

INSTALLATION

- Reduces installation time and makes device configuration simpler.
- The equipment can be configured from mobile phones. Favorite configurations and parameters can also be created, saved and shared with other installers.

2

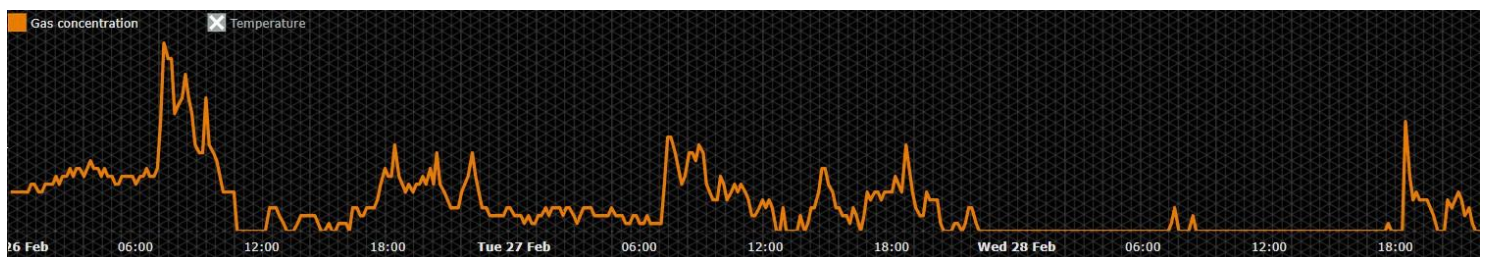
START-UP

- Instantaneously provides information on the level of leaks, alarms, pre-alarms and the transmitter status.
- Identifies errors in device start-up, using logs of configuration and parametrization changes.

3

POST-SALES

- Instantaneously monitors and logs the level of leaks, alarms, pre-alarms, trends and the transmitter status.
- Remote connectivity from any device, allowing a preventive maintenance, minimizing gas leaks and ensuring the proper operation of the installation



AKO