

LKD

Detection and indication of refrigerant leaks





- Early indication of refrigerant gas leaks
- Available for: CO₂, R134a, R404a, NH3, R290 and R600a
- Connection with Televis systems for monitoring and remote signalling.



DESCRIPTION

The state-of-the-art **LKD** series gas sensors can detect a wide range of gases. Models available:

- **SC**: with semiconductor
- IR: with infrared technology

The detected gas / model correspondence is:

- SC: R134a/R404a/NH3/R290/R600a
- **IR**: CO₂

One of the most important features of LKD series gas sensors is that they can be used:

- alone (they have a relay-activated digital output that can control a buzzer, siren, etc.)
- built into an Eliwell or third-party remote management system, thanks to an integrated RS485

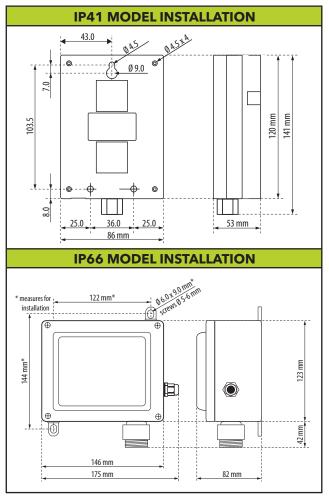
The main applications are as follows:

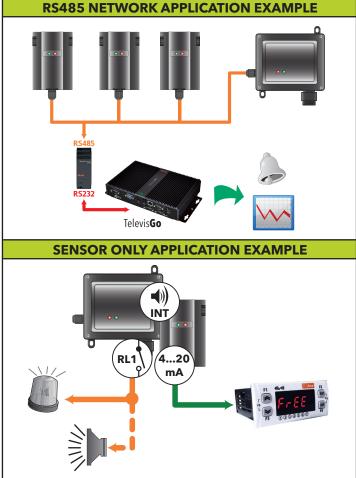
- LT or NT cold rooms
- Refrigerated cabinets
- Compressor rooms

Detection of an excessive concentration of gas (above the factory-set limit) results in the transmission of an alarm signal to the supervisor (if connected to the network) and the activation of an on-site acoustic and visual signal.

• IP41 (used for NT applications) IP rating: • IP66 (used for LT applications) • IP41: 86x142x53 mm - 180 g Dimensions/Weight: • IP66: 175x165x82 mm - 629 g Power supply: 12-24 V.../~ ±20% 50/60 Hz Consumption (at 12 V): **SC**: 153 mA - IR: 136 mA 0-5 V, 1-5 V, 0-10 V, 2-10 V, 4-20 mA Analogue outputs: 1 1A - 24 V~/m relay Digital outputs: Settable delay: 0, 1, 5, 10 minutes 1 RS485 for connection to supervisor Connections: Modbus (depending on model) Measurement range: **SC**: 10-1,000 ppm - **IR**: ppm - % IP41: -20...+50°C - **IP66**: -40...+50°C Temperature range: Humidity range: 0...95% (non-condensing) Sensor service life: **SC**: 5-8 years - **IR**: 8-10 years T50 alarm threshold: SC: 76 sec (filtered) - IR: 25 sec T90 alarm threshold: SC: 215 sec (filtered) - IR: 90 sec Recovery time: **SC**: 600 sec - **IR**: 210 sec On-site alarm: light (red LED) / acoustic (buzzer)

TECHNICAL DATA





ELIWELL CONTROLS srl

Via dell' Industria, 15 Z.I. Paludi 32010 Pieve d' Alpago (BL)

- ITALY -

Telephone: +39 0437 986 111 Fax: +39 0437 989 066

www.eliwell.com

Sales:

Telephone: +39 0437 986 100 (Italy)

+39 0437 986 200 (other countries)

email: saleseliwell@invensys.com

Technical Support:

Telephone: +39 0437 986 300

email: techsuppeliwell@invensys.com





CT123171 • LKD • EN • rel 07/12 © Eliwell Controls s.r.l. 2012 - All rights reserved