

LKD

Detection and indication of refrigerant leaks



- › Early indication of refrigerant gas leaks
- › Available for: CO₂, NH₃, HFO, HC and HFC
- › Model with remote sensor (5 meter cable disconnectable)
- › 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**: NH₃, HFO, HC and HFC
- **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

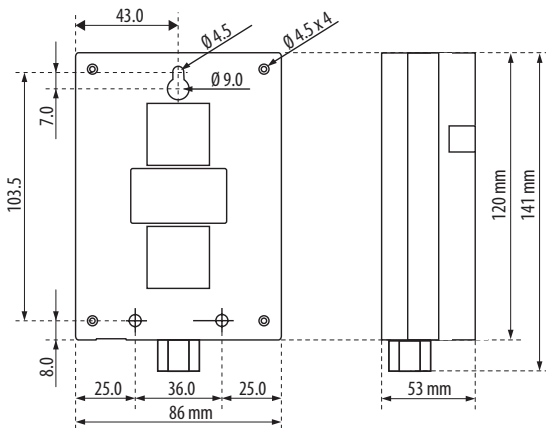
Detection of an excessive concentration of gas (above the factory-set limit) results in the transmission of an alarm signal to the supervisor (if connected to the network) and the activation of an on-site acoustic and visual signal.

LKD 100 5 m permits the installation of sensor to 5 meters away from the device.

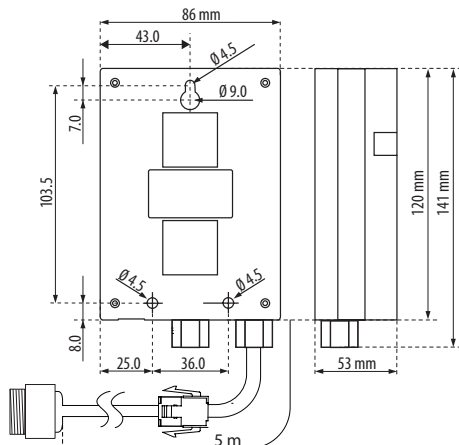
TECHNICAL DATA

IP rating:	<ul style="list-style-type: none"> • LKD 100: IP41 • LKD 200: IP66 • LKD 100 5 m: IP41 - Sensor: IP65
Dimensions/Weight:	<ul style="list-style-type: none"> • LKD 100: 86x142x53 mm - 180 gr • LKD 200: 175x165x82 mm - 629 gr • LKD 100 5 m: 86x142x53 mm - 180 gr Cable: 5 m
Power supply:	12-24 Vac/dc ±20 % 50/60 Hz
Consumption (at 12 V):	SC : 153 mA - IR : 136 mA
Analogue outputs:	0-5 V, 1-5 V, 0-10 V, 2-10 V, 4-20 mA
Digital outputs:	1 1 A - 24 Vac/dc relay
Connections:	1 RS485 for connection to supervisor Modbus (depending on model)
Measurement range:	SC : 10-1,000 ppm - IR : ppm - %
Temperature range:	LKD 100 : -20...50 °C - LKD 200 : -40...50 °C
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)

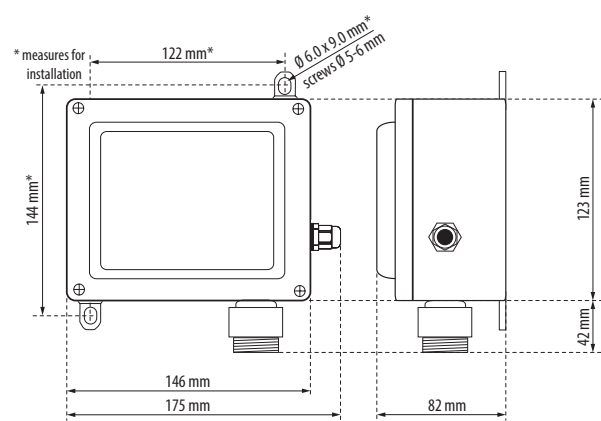
IP41 MODEL INSTALLATION



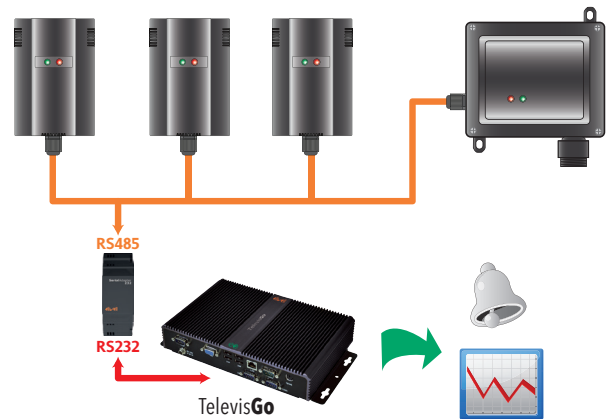
IP41 5 m MODEL INSTALLATION



IP66 MODEL INSTALLATION



RS485 NETWORK APPLICATION EXAMPLE



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