

LKD NEXT

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LKDNext series leak detectors continuously monitor indoor air for refrigerant leaks. The devices can be used for refrigeration applications (cold rooms, freezer rooms, machine rooms). LKDNext series detectors can be used in standalone applications or connected to ELIWELL controllers or third-party devices. Communication with controllers uses analog output, relays or serial RS485 Modbus connection and Bluetooth.

LKDNext series leak detectors continuously monitor indoor air for refrigerant leaks. The devices can be used for refrigeration applications (cold rooms, freezer rooms, machine rooms). They are calibrated to detect most refrigerants currently available on the market. The sensitive elements are constructed using semiconductor technology (SC), infrared technology (IR) or electrochemical technology (EC). LKDNext series detectors can be used in stand-alone applications or connected to ELIWELL controllers or third-party devices. Communication with controllers uses analog output, relays or serial RS485 Modbus connection and Bluetooth. When a refrigerant leak exceeding a programmable concentration threshold is detected, an alarm or warning state is activated, depending on the concentration level set, and the LKDNext responds as follows:

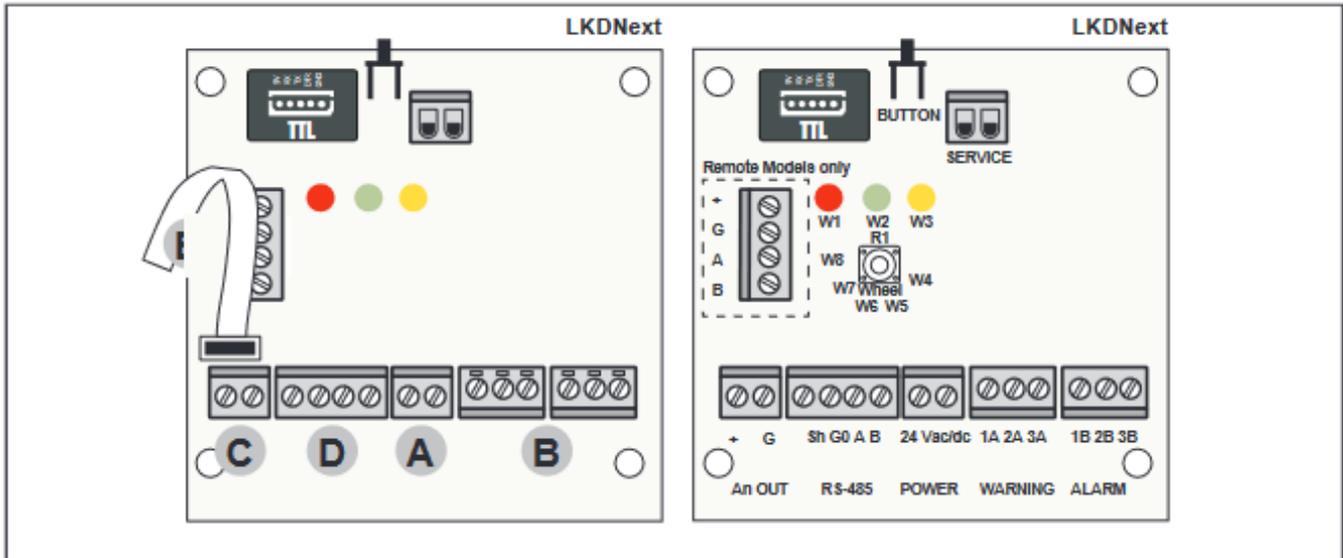
- The combination of lit LEDs changes
- A dedicated internal relay (SPDT) is activated
- The buzzer is activated
- The analog output is controlled (proportionally to the detected concentration)
- The change of state is signaled via the Modbus RS485 output and the Eliwell Air application

In addition, the "Eliwell Air App", available on the App Store and Play Store. The LKDNext series detectors make it possible to comply with refrigeration safety standards (e.g. EN 378, ASHRAE 15) via alarms to alert personnel in the event of a refrigerant leak. The sensitive elements are constructed using semiconductor technology (SC), infrared technology (IR) or electrochemical technology (EC).

Technical Data

Usage temperature	-40..+50 °C, 5...90% RH, non-condensing (with DONGLE BTLE 5.0 AIR -20..+50 °C, 5...90% RH, non-condensing)
Analogue input (s)	1
Analogue outputs	2 SPDT
Power supply	24 V
Connections	Modbus RTU (RS485), DONGLE BTLE 5.0 AIR as option
Refrigerants	CO2




Electrical connections

Sortie	+	C	Sortie analogique
	G		Sortie analogique
RS 485	Sh	D	Cable blindé RS485
	G0		GND pour RS485
	A		Tx + / Rx + pour RS485
	B		Tx- / Rx- pour RS485
Alim.	24 Vac/dc	A	Pour l'alimentation Vac, connectez le deuxième fil du transformateur. Pour une alimentation Vdc, connectez l'un des deux fils d'alimentation, l'appareil se met automatiquement reconnaît si c'est + ou GND.
Avertiss.	1A	B	Contact NF pour le relais d'avertissement/défaut
	2A		Commun pour le relais d'avertissement/défaut
	3A		Contact NO pour le relais d'avertissement/défaut
Alarme	1B	B	Contact NF pour le relais d'alarme
	2B		Commun pour le relais d'alarme
	3B		Contact NO pour le relais d'alarme
TTL			Connecteur Dongle BTLE

NOTE:
Valable uniquement pour les appareils non alimentés ou sans sécurité