



CAREL

“DPWL” Leakage sensor refrigerant gas leak detector

savings: a prompt response avoids unit downtime;
safety: for people located in the vicinity of the unit and for food storage;
signal: prompt warning of system gas leaks

For the detection of CFC, HFC and CO₂ refrigerant gases, CAREL proposes a new range of sensors designed to satisfy all requirements in the fields of industrial refrigeration and air-conditioning (supermarkets, shopping centres, other public places) on units that require continuous control and monitoring, notifying system status in order to limit the problems caused by gas leaks. The sensors are calibrated to measure the most commonly used gases. When leaks above a certain concentration are detected, the sensor sends a signal to the controller or supervisor it's connected to. The alarm is also signalled locally by audible and visual indicators. Versions available with semiconductor sensing element.

Preventing refrigerant gas leaks has the following advantages:

- avoids system downtime or significant economic damage due to poor food storage, mean cost savings;
- contributes to reducing greenhouse gas emissions, as established by the Kyoto protocol;
- ensures surveillance over the safety of people occupying the environment where the refrigeration units are operating.

Available in built-in or remote sensor.

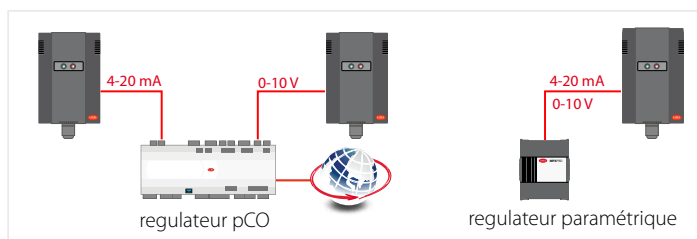
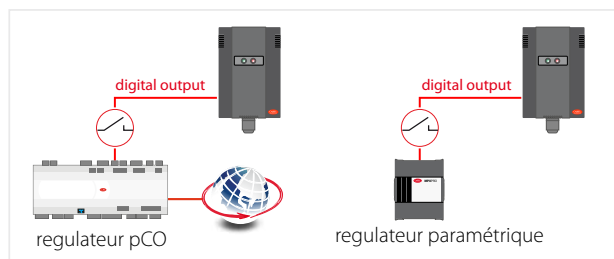
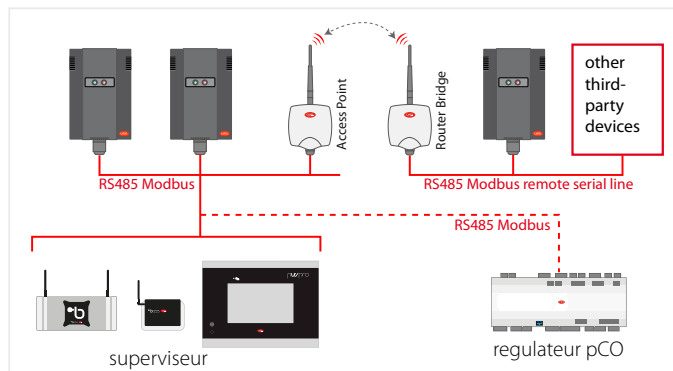
Installation of the gas leak detector ensures compliance with European standards F-GAS and EN378 as well as ASHRAE 15 (US market).

Connected Efficiency

Technical specifications

Type of sensor		
Features	Semiconductor IP41 and IP66	Infrared IP66 for CO ₂
Outputs available	serial: RS485 Modbus analogue: 0 to 5 V, 0 to 5 V, 0 to 10 V, 2 to 10 V, 4 to 20 mA digital: relay 1 A, 24 Vac	
Local alarm	light (red LED) audible (buzzer): threshold, see technical documents	

Example applications (verify compatibility with application on controller)



Codes available

Refrigerant	IP66	IP66 - remote sensor
Infrared		
R-744 (CO ₂)	DPWL417000	DPWL427000
Semiconductor		
R-22	DPWLA07000	DPWLA27000
R-32	DPWL107000	DPWL127000
R-134A	DPWLB07000	DPWLB27000
R-290	DPWLP07000	DPWLP27000
R-404A	DPWLC07000	DPWLC27000
R-407A	DPWLR07000	DPWLR27000
R-407C	DPWLD07000	DPWLD27000
R-407F	DPWLS07000	DPWLS27000
R-410A	DPWLE07000	DPWLE27000
R-448A	DPWLH07000	DPWLH27000
R-449A	DPWLU07000	DPWLU27000
R-450A	DPWLW07000	DPWLW27000
R-452A	DPWLX07000	DPWLX27000
R-513A	DPWLY07000	DPWLY27000
R-507A	DPWLT07000	DPWLT27000
R-600	DPWL207000	DPWL227000
R-600a	DPWL307000	DPWL327000
R-1234ze(E)	DPWLZ07000	DPWLZ27000
R-1234yf	DPWLY07000	DPWLY27000
R-717 (NH ₃)	DPWLG07000	
R-1150 (Ethylene)	DPWLQ07000	



Prompt gas leak signal

Minimises costs due to leaks in the circuit, protecting people's health.



Better connectivity

Integration with most CAREL and third party controllers.



Standards compliant

Guarantees conformity with European (F-GAS and EN378) and US standards (ASHRAE 15).

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