

## DPWL\*: sensore rilevatore perdite gas refrigerante / Gas Sensor leakage / Capteur détection de gaz / Kältegasdetektor / Sensor detector de fugas de gas refrigerante



### Descrizione generale

Il sensore rilevatore di gas refrigerante è un dispositivo che segnala le fughe dei più comuni gas (R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO<sub>2</sub>), R-1150 (Ethylene), R-1234yf, R-1234ze(E)). Può essere utilizzato in applicazioni stand-alone, integrato con i controllori Carel, o con dispositivi di terze parti. Prevede il collegamento con il controllo Carel attraverso l'uscita analogica, digitale, o tramite collegamento seriale RS485 Modbus\*. Quando viene rilevata la perdita oltre una certa concentrazione, il sensore segnala al controllo l'allarme e attiva localmente una segnalazione acustica e visiva e contemporaneamente un relé (SPDT). Offre il vantaggio di intervenire tempestivamente sulle perdite di gas evitando il fermo macchina e garantendo la sicurezza per le persone che soggiornano nelle vicinanze. Ogni modello è calibrato per uno specifico gas e viene installato tipicamente in edifici nuovi o esistenti, che richiedono un monitoraggio continuo delle perdite di gas. La sua installazione permette il rispetto delle normative Europee F-GAS e EN378 e ASHRAE 15. Disponibile nelle versioni semiconduttore IP41 e IP66, con sensore remoto.

### Caratteristiche tecniche

	Versione Semiconduttore R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO <sub>2</sub> ), R-1150 (Ethylene), R-1234yf, R-1234ze(E)	Versione Infrared CO <sub>2</sub>
Alimentazione:	12/24V+20% d.c./a.c. 50/60 Hz	136mA
Consumo elettrico (a 12V):	153mA	136mA
Controllo in funzione:	Led verde	
Visualizzazione allarme:	Led rosso	
Allarme acustico:	abilitato/disabilitato	Led verde
Guasto durante il monit.:	Led rosso ON - Verde OFF	Led rosso ON - Verde OFF
Stato di guasto:	1V, 2mA	1V, 2mA
Uscita analogica:	0-5V, 1-5V, 0-10V, 2-10V, 4-20mA	
Comunicazione seriale:	RS485 Modbus*	
Uscita digitale:	1 Relé nominale 1 Amp/24 Vdc/ac	
Selectable delay:	0,1,5,10min	
Protezione IP:	IP41 versione built-in IP66 versione sensore remoto	IP66 built-in e sensore remoto
Campo di lavoro tipico:	0-1.000 ppm (*)	0-10.000 ppm
Campo di lavoro:	-20T50°C (-40T50°C per versioni IP66)	-40T50°C
Umidità senza condensa:	0 to 95%	
Vita del sensore attesa:	5-8 anni	
Soglia allarme:	100 ppm	1500 ppm
Tempo di ripristino:	600 s	210 s
Linearità	su un campo di taratura	
Campo di lavoro:	• HCFC = 10 to 1.000 ppm (vers. semiconduttore) • HFC's = 10 to 1.000 ppm (vers. semiconduttore) • Carbon Dioxide = 0 to 10.000 ppm (vers. Infrared)	

Tab. 1

**Nota:** per gas R-1234ze, R-449A, R-450A, R-513A limitati a 500ppm.

### Requisiti di calibrazione

Le normative locali potrebbero richiedere procedure di controllo per la calibrazione del sensore. Le principali normative richiedono almeno l'analisi annua e taratura. I sensori a semiconduttore e infrared CO<sub>2</sub> sono calibrati per un gas specifico. Il primo fatto dal costruttore, e successive dall'installatore.

### Manutenzione per versione semiconduttore e CO2 infrared

Test annuale	Per soddisfare la normativa EN378 e F-GAS è necessario eseguire il test di prova ogni anno
Ogni 3 anni	Si consiglia una taratura (vedi procedura di calibrazione nel manuale d'uso).
Ogni 5/6 anni	Si consiglia di cambiare l'elemento di rilevamento gas e fare una calibraz.

Tab. 2

**Nota:** dopo una fuga di gas consistente e prolungata all'esposizione, provvedere ad eseguire un controllo o alla sua sostituzione nel caso sia necessario. Per maggiori informazioni consultare il manuale tecnico (cod. +0300035IT e +0300035EN).

### Codici:

Refrigerante	Infrared IP66	Infrared IP66 - sensore remoto
CO <sub>2</sub>	DPWL417000	DPWL427000

Refrigerante	Semi-conduttore IP41	Semi-conduttore IP66 - sensore remoto	Refrigerante	Semi-conduttore IP41	Semi-conduttore IP66 - sensore remoto
R-22	DPWLA07000	DPWLA27000	R-450A	DPWLV07000	DPWLW27000
R-32	DPWL107000	DPWL127000	R-452A	DPWLW07000	DPWLW27000
R-134A	DPWL807000	DPWL827000	R-513A	DPWLX07000	DPWLX27000
R-290	DPWLP07000	DPWLP27000	R-507A	DPWLT07000	DPWLT27000
R-404A	DPWLC07000	DPWLC27000	R-600	DPWL207000	DPWL227000
R-407A	DPWLR07000	DPWLR27000	R-600a	DPWL307000	DPWL327000
R-407C	DPWLD07000	DPWLD27000	R-1234ze(E)	DPWLZ07000	DPWLZ27000
R-407F	DPWLS07000	DPWLS27000	R-1234yf	DPWLY07000	DPWLY27000
R-410A	DPWLE07000	DPWLE27000	R-717 (Ammonia NH3)	DPWLG07000	
R-448A	DPWLH07000	DPWLH27000	R-1150 (ETHYLENE)	DPWLQ07000	
R-449A	DPWLU07000	DPWLU27000			

Tab. 3

Opzioni:	
6133015AXX	Elemento sensibile per gas refrigeranti HCFC e HFC - per versione a semiconduttore
6133017AXX	Elemento sensibile per gas refrigeranti HCFC, HFC e ETILENE - per versione a semiconduttore con cavo 5m
6133019AXX	Elemento sensibile per gas refrigerante NH3 - per versione a semiconduttore
6133016AXX	Elemento sensibile per gas refrigerante CO <sub>2</sub> - per versione a infrared
6133018AXX	Elemento sensibile per gas refrigerante CO <sub>2</sub> - per vers. a infrared con cavo 5m
DPWLKIT000	Adattatore di calibrazione (tubo e cappuccio)
DPWLKIT010	Adattatore di calibrazione (tubo e 4 cappucci)
DPWLKIT100	Protezione agli spruzzi per versioni IP66

### General description

The refrigerant gas leak sensor is a device that signals leakages of common gases (R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO<sub>2</sub>), R-1150 (Ethylene), R-1234yf, R-1234ze(E)). It can be used in stand-alone applications, or integrated into Carel controllers or third party devices. Connection to Carel controllers is made using an analogue or digital output or Modbus\* RS485 serial connection. When leaks are detected exceeding a certain concentration, the sensor sends an alarm signal to the controller, activating a local audible and visual warning and a relay (SPDT). This allows prompt identification of gas leaks, avoiding having to shut the unit down and at the same time guaranteeing the safety of any people in the vicinity. Each model is calibrated for a specific gas and is typically installed in new or existing buildings that require continuous monitoring of gas leaks. Installation of the device ensures compliance with European standards F-GAS and EN378 as well as ASHRAE 15. Available in semiconductor IP41 and IP66 versions, with remote sensor.

### Technical specifications

	Semiconductor version R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO <sub>2</sub> ), R-1150 (Ethylene), R-1234yf, R-1234ze(E)	Infrared version CO <sub>2</sub>
Power supply:	12/24V+20% d.c./a.c. 50/60 Hz	
Power consumption (at 12V):	153mA	136mA
Monitoring active:	Green LED	
Alarm display:	Red LED	
Audible alarm:	enabled/disabled	active/désactivée
Fault during monitoring:	Red LED ON - Green OFF	Led rouge ON - Vert OFF
Fault status:	1V, 2mA	1V, 2mA
Analogue output:	0-5V, 1-5V, 0-10V, 2-10V, 4-20mA	
Serial communication:	Modbus* RS485	
Digital output:	1 relay rated at 1 A/24 Vdc/ac	
Selectable delay:	0, 1, 5, 10min	
IP protection:	IP41 built-in version IP66 remote	IP66 built-in and remote sensor
Typical operating range:	0-1.000 ppm (*)	0-10.000 ppm
Operating conditions:	-20T50°C (-40T50°C for the IP66 version)	-40T50°C
Non-condensing humidity:	0 to 95%	
Estimated sensor life:	5-8 years	
Alarm threshold:	100 ppm	1500 ppm
Reset time:	600 s	210 s
Linearity	on calibration field	
Operating range:	• HCFC = 10 to 1.000 ppm (semiconductor vers.) • HFC's = 10 to 1.000 ppm (semiconductor vers.) • Carbon Dioxide = 0 to 10.000 ppm (infrared vers.)	

Tab. 1

**Note:** For gas R-1234ze, R-449A, R-450A, R-513A limited at 500ppm

### Calibration requirements

Local standards may require control procedures for sensor calibration. The main relevant standards require testing and calibration at least once a year. The semiconductor and CO<sub>2</sub> infrared sensors are calibrated for a specific gas. The first calibration is performed by the manufacturer, subsequent calibrations are performed by the installer.

### Maintenance for the semiconductor and infrared CO2 version

Annual testing	Tests must be performed annually to meet EN378 and F-GAS standards
Every 3 years	Calibration recommended (see calibration procedure in the user manual).
Every 5/6 years	Gas sensor replacement and calibration recommended

Tab. 2

**Note:** following a significant gas leak with extended exposure, check and if necessary replace the sensor. For further information, see the technical manual (code +0300035IT and +0300035EN).

### Codes:

Refrigerant	Infrared IP66	Infrared IP66 - capteur à distance
CO <sub>2</sub>	DPWL417000	DPWL427000

Refrigerant	Semi-conductor IP41	Semi-conductor IP66 - capteur à distance	Refrigerant	Semi-conductor IP41	Semi-conductor IP66 - capteur à distance
R-22	DPWLA07000	DPWLA27000	R-450A	DPWLV07000	DPWLW27000
R-32	DPWL107000	DPWL127000	R-452A	DPWLW07000	DPWLW27000
R-134A	DPWL807000	DPWL827000	R-513A	DPWLX07000	DPWLX27000
R-290	DPWLP07000	DPWLP27000	R-507A	DPWLT07000	DPWLT27000
R-404A	DPWLC07000	DPWLC27000	R-600	DPWL207000	DPWL227000
R-407A	DPWLR07000	DPWLR27000	R-600a	DPWL307000	DPWL327000
R-407C	DPWLD07000	DPWLD27000	R-1234ze(E)	DPWLZ07000	DPWLZ27000
R-407F	DPWLS07000	DPWLS27000	R-1234yf	DPWLY07000	DPWLY27000
R-410A	DPWLE07000	DPWLE27000	R-717 (Ammonia NH3)	DPWLG07000	
R-448A	DPWLH07000	DPWLH27000	R-1150 (ETHYLENE)	DPWLQ07000	
R-449A	DPWLU07000	DPWLU27000			

Tab. 3

Opzioni:	
6133015AXX	HCFC, HFC and ETHYLENE refrigerant gas sensor for semiconductor version
6133017AXX	HCFC, HFC and ETHYLENE refrigerant gas sensor for semiconductor version cable 5m
6133019AXX	"NH3 refrigerant gas sensor - for semiconductor version"
6133016AXX	CO <sub>2</sub> refrigerant gas sensor - for infrared version
6133018AXX	CO <sub>2</sub> refrigerant gas sensor - for infrared version cable 5m
DPWLKIT000	Calibration adapter (hose and hood)
DPWLKIT010	Calibration adapter (hose and 4 hoods)
DPWLKIT100	Protection against water spray for IP66 version

### Description générale

Le capteur détecteur de gaz réfrigérant est un dispositif qui signale les fuites des gaz les plus communs (R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO<sub>2</sub>), R-1150 (Ethylene), R-1234yf, R-1234ze(E)). Il peut être utilisé pour les applications stand-alone, il est intégré avec les contrôleurs Carel ou avec les dispositifs d'autres pièces. Il prévoit le raccordement avec le contrôle Carel à travers la sortie analogique, numérique ou par le raccordement sériel RS485 Modbus\*. Lorsque la fuite est détectée au-delà d'une certaine concentration, le capteur signale au moment du contrôle l'alarme, il active localement une signalisation acoustique et visuelle et simultanément un relais (SPDT). Il offre l'avantage d'intervenir en temps utile sur les fuites de gaz en évitant l'arrêt de la machine et en garantissant la sécurité des personnes qui sont aux alentours. Chaque modèle est calibré pour un gaz spécifique, il est installé en général dans des bâtiments neufs ou existants qui nécessitent un monitoring continu des fuites de gaz. Son installation respecte les réglementations Européennes F-GAS et EN378 et ASHRAE 15. Disponible dans les versions semi-conducteur IP41 et IP66 avec capteur à distance.

### Caractéristiques techniques

	Version Semi-conducteur R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO <sub>2</sub> ), R-1150 (Ethylene), R-1234yf, R-1234ze(E)	Version Infrared CO <sub>2</sub>
Alimentation:	12/24V+20% d.c./a.c. 50/60 Hz	
Consom. électrique (à 12V):	153mA	136mA
Contrôle en fonction:	Led vert	
Visualisation alarme:	Led rouge	
Alarme acoustique:	activée/désactivée	active/désactivée
Panne durant le monitoring:	Led rouge ON - Vert OFF	
Etat de panne:	1V, 2mA	1V, 2mA
Sortie analogique:	0-5V, 1-5V, 0-10V, 2-10V, 4-20mA	
Communication sérielle:	RS485 Modbus*	
Sortie numérique:	1 Relais nominal 1 Amp/24 Vdc/ac	
Selectable delay:	0,1,5,10min	
Protection IP:	IP41 version encastree IP66 version capteur à distance	IP66 encastré et capteur à distance
Zone de travail typique:	0-1.000 ppm (*)	0-10.000 ppm
Zone de travail:	-20T50°C (-40T50°C pour IP66 version)	-40T50°C
Humidité sans condensat.:	0 to 95%	
Vis du capteur en attente:	5-8 ans	
Seuil d'alarme:	100 ppm	1500 ppm
Temps de rétablissement:	600 s	210 s
Linéarité	sur une zone d'étalonnage	
Zone de travail:	• HCFC = 10 to 1.000 ppm (vers. semi-conducteur) • HFC's = 10 to 1.000 ppm (vers. semi-conducteur) • Carbon Dioxide = 0 to 10.000 ppm (vers. Infrared)	

Tab. 1

**Note:** Pour le gaz R-1234ze, R-449A, R-450A, R-513A limité à 500ppm.

### Exigences de calibrage

Les réglementations locales peuvent nécessiter des procédures de contrôle pour le calibrage du capteur. Les principales réglementations et infrarouge CO<sub>2</sub> nécessitent au moins une analyse annuelle et un étalonnage. Les capteurs à semi-conducteur sont calibrés pour un gaz spécifique. Le premier est effectué par le fabricant et les suivants par l'installateur.

### Maintenance pour version semi-conducteur et CO2 infrarouge

Test annuel	Pour satisfaire la réglementation EN378 et F-GAZ, il est nécessaire d'effectuer le test d'essai chaque année.
Tous les 3 ans	On conseille un étalonnage (voir procédure de calibrage dans le manuel d'utilisation).
Tous les 5/6 ans	On conseille de changer l'élément de détection gaz et de faire un calibrage.

Tab. 2

**Remarque:** après une fuite de gaz consistente et prolongée à l'exposition, effectuer un contrôle ou son remplacement si c'est nécessaire. Pour plus d'informations, consulter le manuel technique (code +0300035IT et +0300035EN).

### Codes:

réfrigérant	Infrared IP66	Infrared IP66 - remote sensor
CO <sub>2</sub>	DPWL417000	DPWL427000

réfrigérant	semi-conducteur IP41	semi-conducteur IP66 - remote sensor	réfrigérant	semi-conducteur IP41	semi-conducteur IP66 - remote sensor
R-22	DPWLA07000	DPWLA27000	R-450A	DPWLV07000	DPWLW27000
R-32	DPWL107000	DPWL127000	R-452A	DPWLW07000	DPWLW27000
R-134A	DPWL807000	DPWL827000	R-513A	DPWLX07000	DPWLX27000
R-290	DPWLP07000	DPWLP27000	R-507A	DPWLT07000	DPWLT27000
R-404A	DPWLC07000	DPWLC27000	R-600	DPWL207000	DPWL227000
R-407A	DPWLR07000	DPWLR27000	R-600a	DPWL307000	DPWL327000
R-407C	DPWLD07000	DPWLD27000	R-1234ze(E)	DPWLZ07000	DPWLZ27000
R-407F	DPWLS07000	DPWLS27000	R-1234yf	DPWLY07000	DPWLY27000
R-410A	DPWLE07000	DPWLE27000	R-717 (Ammonia NH3)	DPWLG07000	
R-448A	DPWLH07000	DPWLH27000	R-1150 (ETHYLENE)	DPWLQ07000	
R-449A	DPWLU07000	DPWLU27000			

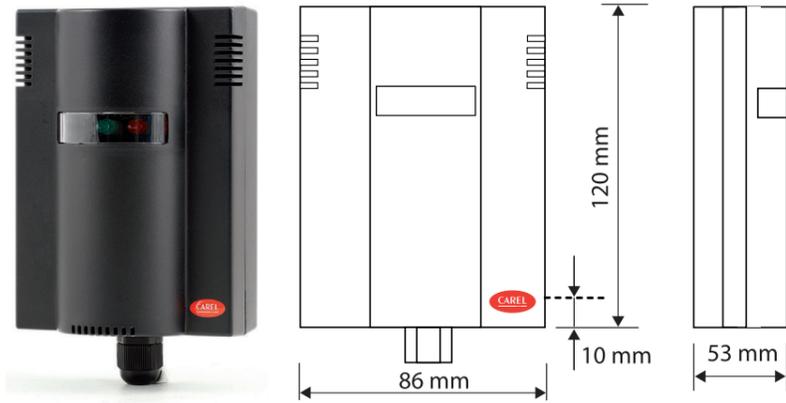
Tab. 3

Opzioni:	
6133015AXX	Élément sensible pour gaz réfrigérant HCFC et HFC - vers. à semi-conducteur
6133017AXX	Élément sensible pour gaz réfrigérant HCFC, HFC et éthylène - version à semi-conducteur avec câble 5 m
6133019AXX	Élément sensible pour gaz réfrigérant NH <sub>3</sub> - version à semi-conducteur
6133016AXX	Élément sensible pour gaz réfrigérant CO <sub>2</sub> - version à infrarouge
6133018AXX	Élément sensible pour gaz réfrigérant CO <sub>2</sub> - vers. à infrarouge avec câble 5 m
DPWLKIT000	Adaptateur d'étalonnage (tube et bouchon)
DPWLKIT010	Adaptateur d'étalonnage (tube et 4 bouchons)
DPWLKIT100	Protection contre les éclaboussures pour versions IP66

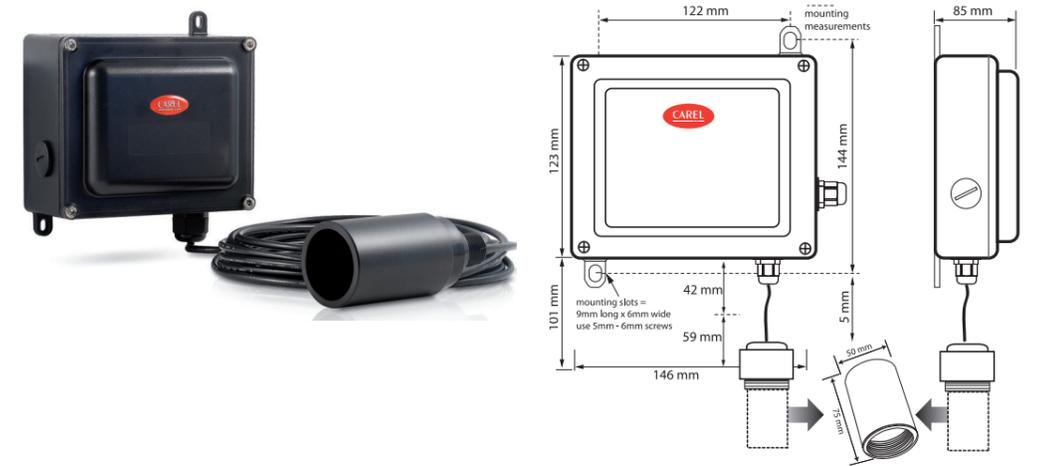
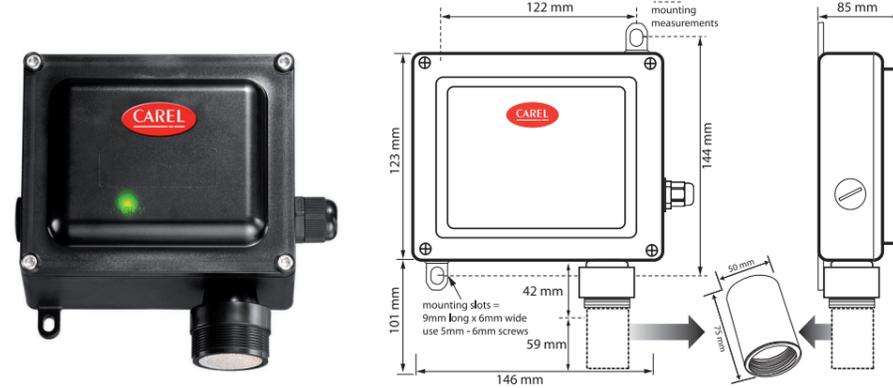
### Allgemeine Beschreibung

Der Kältegasdetektor ist ein Sensor für die Erfassung und Meldung der Entweichung der häufigsten Kältegas (R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO<sub>2</sub>), R-1150 (Ethylene), R-1234yf, R-1234ze(E)). Er

Version IP41

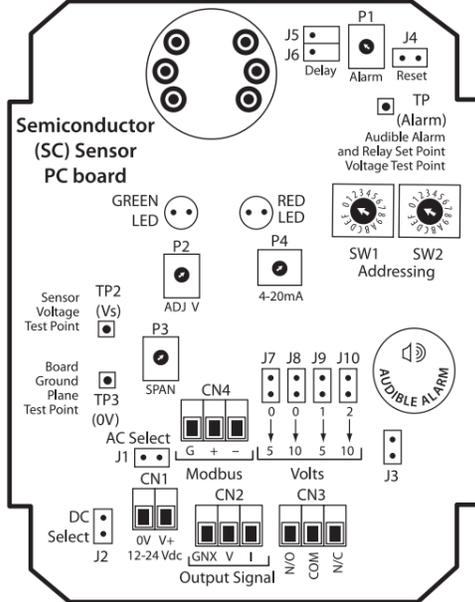


Version IP66

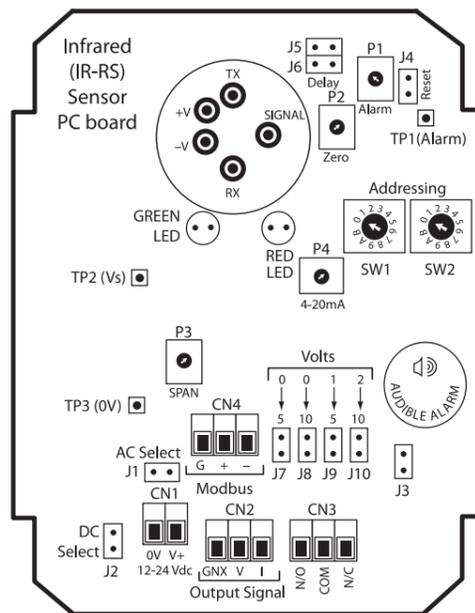


Collegamenti elettrici e configurazione / Electrical connections and configuration / Raccordements électriques et configuration / Elektrische Anschlüsse und Konfiguration / Conexiones eléctricas y configuración

Semiconductor sensor R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO<sub>2</sub>), R-1150 (Ethylene), R-1234yf, R-1234ze(E) version



Infrared sensor CO<sub>2</sub> version



Consigli per installazione / Installation tips / Conseils pour l'installation / Installationsempfehlungen / Consejos para la instalación



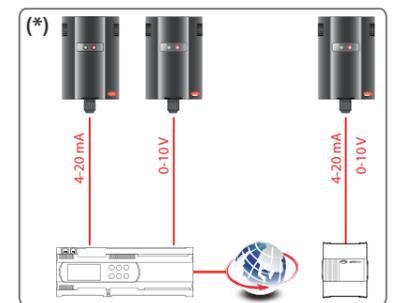
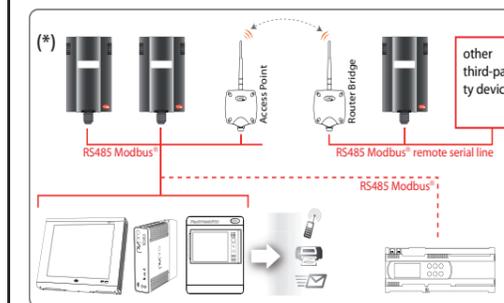
Per gas: R-22, R-32, R-134a, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-448A, R-449A, R-450A, R-452A, R-507A, R-513A, R-600, R-600a, R-717 (Ammonia), R-744 (CO<sub>2</sub>), R-1234yf, R-1234ze(E)  
h max 300 mm



Per gas: R-717 (Ammonia NH<sub>3</sub>) - R-1150 (ETHYLENE)  
h max 300 mm

Nota: da installare vicino all'unità di raffreddamento. / Note: to be installed close the cooler unit.

Esempi di collegamento / Connection examples / Exemples de raccordement / Anschlussbeispiele / Ejemplos de conexión



**Nota:** verificare compatibilità con l'applicativo del controllo. **Note:** check compatibility with the application on the controller. **Note:** vérifier la compatibilité avec l'application de contrôle. **NB:** Die Kompatibilität mit dem Anwendungsprogramm der Steuerung überprüfen. **Nota:** verificar la compatibilidad con la aplicación de controlador.

**Disposal of the product**  
The appliance (or the product) must be disposed of separately in compliance with the local standards in force on waste disposal.

**Important warnings:** The CAREL product is a state-of-the-art device, whose operation is specified in the technical documentation supplied with the product or can be downloaded, even prior to purchase, from the website www.carel.com. The customer (manufacturer, developer or installer of the final equipment) accepts all liability and risk relating to the configuration of the product in order to reach the expected results in relation to the specific final installation and/or equipment. The failure to complete such phase, which is required/indicated in the user manual, may cause the final product to malfunction; CAREL accepts no liability in such cases. The customer must use the product only in the manner described in the documentation relating to the product. The liability of CAREL in relation to its products is specified in the CAREL general contract conditions, available on the website www.carel.com and/or by specific agreements with customers.

CAREL reserves the right to modify the features of its products without prior notice.

Legende

<p><b>SW1 and SW2 Modbus Addressing</b></p> <table border="1"> <tr> <th>ADDR (DEC)</th> <th>SW1 (LSB)</th> <th>SW2 (MSB)</th> <th></th> </tr> <tr> <td>D00</td> <td>0</td> <td>0</td> <td rowspan="4">Reserved Address</td> </tr> <tr> <td>D01</td> <td>1</td> <td>0</td> </tr> <tr> <td>D02</td> <td>0</td> <td>1</td> </tr> <tr> <td>D17</td> <td>1</td> <td>1</td> </tr> <tr> <td>...</td> <td>...</td> <td>...</td> <td rowspan="2">Valid Addresses</td> </tr> <tr> <td>247</td> <td>7</td> <td>7</td> </tr> <tr> <td>248</td> <td>8</td> <td>F</td> <td rowspan="2">Reserved Addresses</td> </tr> <tr> <td>255</td> <td>F</td> <td>F</td> </tr> </table>	ADDR (DEC)	SW1 (LSB)	SW2 (MSB)		D00	0	0	Reserved Address	D01	1	0	D02	0	1	D17	1	1	...	...	...	Valid Addresses	247	7	7	248	8	F	Reserved Addresses	255	F	F	<p><b>J4 Reset Jumper</b></p> <p>OFF (Then ON) / ON (Then OFF)</p> <p>Normal Operation / Reset</p>	<p><b>CN3 Relay Connector</b></p> <p>N/O (Normally Open) / COM (Common) / N/C (Normally Closed)</p>	<p><b>J1 and J2 Power Supply Selection Jumper</b></p> <p>AC Power Selected / DC Power Selected</p> <p>ON J1 / OFF J2 / OFF J1 / ON J2</p> <p>CN1 / CN1</p> <p>12-24 Vac / 0V V+ 12-24 Vdc</p>	<p><b>P1-P4 Adjustment Pots</b></p> <p>P1: Adjusts Alarm Setpoint for Audible Alarm and Relay</p> <p>P2: Adjusts Zero Level Voltage for Output Signal</p> <p>P3: Adjusts Output Signal Span</p> <p>P4: Adjusts 4-20 mA Current Output</p>	<p><b>J5 and J6 Delay Jumper for Audible Alarm and Relay</b></p> <p>J5/J6: 0 Minutes (No Delay) / 1 Minutes Delay / 5 Minutes Delay / 10 Minutes Delay</p>	<p><b>CN4 Modbus Connector</b></p> <p>J7-J10 Output Jumper or CN2 Output Signal Connector</p> <p>Modbus: G (Ground), + (Non-inverting Modbus Signal TxD+/RxD+), - (Non-inverting Modbus Signal TxD-/RxD-)</p> <p>Output Signal: GNX (0V, Ground), V (0-5V, 0-10V, 1-5V, 2-10V Output), I (Current Output, 4-20 mA)</p>
ADDR (DEC)	SW1 (LSB)	SW2 (MSB)																																			
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