

## OY1220 LoRaWAN® Refrigerant leak detector

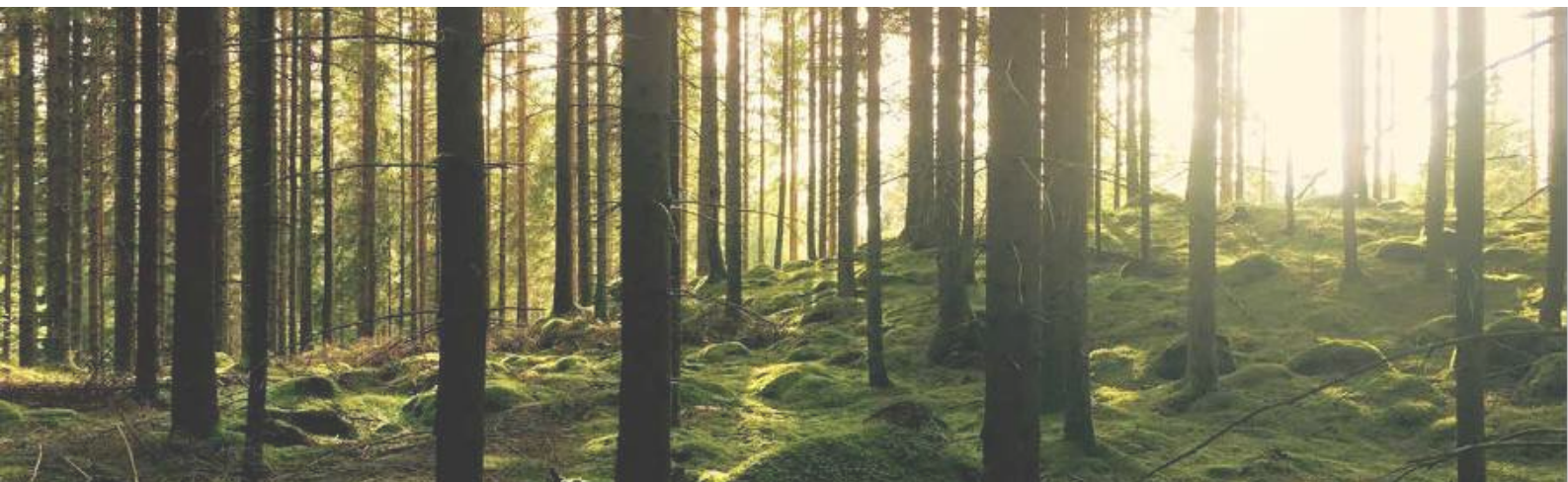
**LoRaWAN sensor measuring gas leakages in refrigeration and cooling systems, measuring R32 gas. The device is easy to use, configurable over the air and stylish in design to fit into indoor spaces.**

### **Green building certifications**

Monitoring gasses is an important aspect of modern, green buildings, and it is rewarded in various green building certifications, for example the BREEAM In-Use certification.

### **Carbon footprint**

Refrigeration gasses in cooling systems are potent greenhouse gasses. Early detection of these leakages limits the amount of gasses leaking into the atmosphere. Additionally, this informs the building owners that the cooling system requires maintenance to perform optimally, after which it will continue to operate as energy efficient as possible.



# OY1220 LoRaWAN® Refrigerant leak detector

<b>Operating principle</b>	
Target gas	R32 (CH <sub>2</sub> F <sub>2</sub> ) Hydrocarbon based refrigerants
<b>Accuracy and range</b>	
Temperature accuracy	± 0,2 °C (conditions 0 °C to +50 °C)
Temperature range	-20 °C to +60 °C
Humidity accuracy	± 2% (conditions 10-90% RH)
Humidity range	0% to 100% non-condensing
Measurement range	Standard: 0% LFL - 25% LFL Extended: 25% LFL - 50% LFL
Operating measurement range	Standard: -20°C to +60°C
Accuracy (HC)	Standard range: ±2,5% LFL Extended range: ±5% LFL
Pressure dependence	$CH_2F_2_{real} = CH_2F_2_{meas} (P_{meas}/P_{ref})$ Pressure ref is the barometric pressure at sea level
<b>Connectivity</b>	
Network	LoRaWAN®
Frequency bands	868 MHz
Provisioning	Over the air & personalization
<b>Size</b>	
Size	111 x 77 x 26 mm
Weight	136g
<b>Security</b>	
Algorithms	AES-128
Hardware	Cryptographic co-processor
Features	Secure boot Secure firmware upgrade
<i>Hardware based ultra-secure key storage</i>	
<b>Battery life</b>	
Battery life length	>5 years (at 20 minute intervals, SF12)
Battery type	2x Lithium-thionyl 3.6V (replaceable)
Capacity	3.6Ah
<b>Enclosure</b>	
IP30	
<b>Certifications</b>	
RoHS compliant	
CE	
LoRaWAN®	

## OY1220 LoRaWAN® Refrigerant leak detector

### Order Product Numbers (OPN)

Version	OPN
OY1220 LoRaWAN® Refrigeration leak detector EU868	TP-T1220-000-1-EU
OY1220 LoRaWAN® Refrigeration leak detector US915	TP-T1220-000-1-US

### Nordic Propeye AB

Östergatan 11  
SE-43430 Kungsbacka, Sweden

Nordic Propeye stands for smart, sustainable choices. We have made it our mission to help our customer to make their real estate and condominiums lean, clean & green.







# Delmation

products



## Delmation Products

Blauw-roodlaan 300  
2718 SK Zoetermeer  
079 - 342 20 41

[www.delmation.nl](http://www.delmation.nl) | [info@delmation.nl](mailto:info@delmation.nl)