

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.



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Operating principle	
Target gas	R32 (CH ₂ F ₂) Hydrocarbon based refrigerants
Accuracy and range	
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
Connectivity	
Network	LoRaWAN®
Frequency bands	868 MHz
Provisioning	Over the air & personalization
Size	
Size	111 x 77 x 26 mm
Weight	136g
Security	
Algorithms	AES-128
Hardware	Cryptographic co-processor
Features	Secure boot Secure firmware upgrade
<i>Hardware based ultra-secure key storage</i>	
Battery life	
Battery life length	>5 years (at 20 minute intervals, SF12)
Battery type	2x Lithium-thionyl 3.6V (replaceable)
Capacity	3.6Ah
Enclosure	
IP30	
Certifications	
RoHS compliant	
CE	
LoRaWAN®	

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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.





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Delmation Products

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

www.delmation.nl | info@delmation.nl