REFCON Portable Modem

Refrigerated container monitoring device with full site coverage.

Reduce operational cost

Optimizing operational productivity with reduced manual labour and maintenance: battery-less design ensures modems are always functional with no down time for charging

Improve personnel safety

Minimize unnecessary time spent in reefer areas or bays and personnel exposure in hazardous conditions

Improve documentation

Records reefer container data and generates reports automatically

Reduce human errors

Verifies planning parameters and settings, quickly alerting users of any inconsistencies.

The REFCON Portable Modem is a simple solution solving a complex problem within the refrigerated container industry.
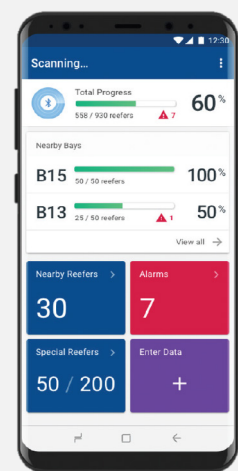
Visibility is key to ensure the well-being of the refrigerated containers and its cargo. However on vessels or terminals today this visibility is at best limited, often leading to issues such as unattended alarms and incorrect setpoints. This means non-optimal and time-consuming manual processes for monitoring the refrigerated containers to maintain the safety of the cargo.

The REFCON Portable Modem connects easily to any currently supported refrigerated container. Either directly to the log retrieval plug or with an extension cable depending on the application. The built-in LED informs the user about the communication status. All reefer information is wirelessly sent to REFCON via the REFCON Wireless Hub where data and alarms can be handled by the crew.

The REFCON Portable Modem can also be used in an application where infrastructure is unavailable. This could be on be on short-term charter vessels or on peak season terminal storage areas.

In these cases the REFCON Mobile app can be used by the crew together with a mobile device for fast and automatic data and alarm collection enabling a flexible monitoring solution.

REFCON Mobile

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Data security is a top priority for us and the REFCON Portable Modem solution is no exception. Therefore, the newest Bluetooth® Low Energy 5 is selected as the wireless interface giving high-security standards and ensuring the highest data security available. The REFCON Portable Modem is also equipped with unique burned-in security keys for additional protection against external threats.

Data Sheet

Refrigerated Container Compatability	
Carrier	MicroLink 3 MicroLink 5
Daikin	Decos III (3) c/d/e/f/g/h/j Decos V(5)a, Vb
Star Cool	RCCU5 SCC6
Thermo King	MP-3000 MP-4000

Environmental Specifications	
Temperature	-30 < + 70 ° C
Relative Humidity	Max 95%, condensing
Protection Rating	IP66
Vibration	5-500Hz, 2g. Ref.: IEC 60068-2-6, Test Fc
Shock	20 g operating, 50 non-operating. Ref.: IEC 60068-2-27, Test Ea
Drop Test	3 meters, 20 cycles. Ref.: IEC 60068-2-31:2008, Test Ec

Certifications	
CE	CE EMC Directive 2014/30/EC Low Voltage Directive 2014/35/EC RED Directive 2014/53/EC RoHS Directive 2011/65/EC WEE Directive 2002/96/EC
FCC	CFR Title 47 FCC Part 15.247

Mechanical	
Enclsoure Material	Lexan 923A
Weight	66 grams
Dimensions	Length: 85mm / Width: 42mm / Height: 38mm

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