

RefBox: Local reefer monitoring

- Remote reefer monitoring of up to 50 reefer containers
- Full alarm support for Thermo King, Carrier and Daikin controllers
- Standard ISO 10368 alarm support for other controllers
- SMS notification in case of a reefer container alarm
- Optional access to Global Monitoring Server for documentation of reefer data

Description

RefBox is a device designed to locally monitor a maximum of 50 reefer containers equipped with ISO-10368 compatible Remote Monitoring Modems (RMM). RefBox improves the quality of reefer monitoring as it features a simple user interface for local inspection of reefer containers. In case of alarm on a reefer container, RefBox submits an alarm message, which can be routed directly to the display of a mobile telephone. RefBox is an easy plug and play solution and no additional components are required.

RefBox receives power directly from a standard container plug. Switch on the RefBox device and it starts up automatically, searching the power cable network for any reefer containers equipped with RMM modems. The connected reefer containers are logged in and presented in a list on the RefBox display. Each individual line represents a reefer container. Selecting a container calls up further details: Container ID, return air temperature, supply air temperature, operating mode, temperature setpoint and active alarms.

RefBox features an integrated GSM/GPRS alarm module. When an alarm occurs on one of the connected containers, the alarm can be routed directly to the display of a mobile telephone. RefBox is furthermore designed with four separate digital input/output channels, as well as two temperature inputs. Each channel can be configured to a number of different actions using a PC-based service tool.



Applications

- PTI shops
- Repair Sites
- Smaller terminals
- Gensets operated yards

Environmental Specifications:

Operating temperature	-20°C < T _{op} < 50°C
Ingress Protection	IP 65
Shock	5-95% RH non-condensing

Physical dimensions:

Length	370 mm
Width	194 mm
Height	78 mm
Weight (with battery)	4500 g

Electrical specifications:

Power supply	340-560 VAC (45-70Hz)
Cable length	App. 3 meter

Electrical specifications:

Power Line	ISO 10368 standard
GPS	Integrated antenna
GSM	Quad band GSM 850/900/1800/1900 (integrated antenna)
Analogue inputs	2 inputs (0-5V or -25-30°C)
Digital inputs	2 digital inputs internally pulled up.
Digital outputs	2 relays (max 1 A _{DC} or 0,5 A _{RMS})
Serial connection	RS232 interface for data transfer and software download – non galvanic insulated

RefBox - Included items:

RefBox – Quad band GSM/GPRS 850/900/1800/1900 (SIM card not included)
CD-Rom with RefBox PC-tool
RefBox User Manual
Mounting plate for RefBox