vmsTRACK-PRO-CS

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vessel & object monitoring and alerting CSTDMA technology for coastal border security & maritime domain awareness

Real-Time-Tracking and alerting via VHF

With CSTDMA technology for
- ☑ **Coastal fishing fleet**
- ☑ **„Friend or Foe" identifying**

Real-Time vessel & object monitoring by VHF

The system allows persistent locating and monitoring of vessels and moving objects in a special area via VHF technologies. The palm-sized position transmitter vmsTRACK-PRO-CS is working with the CSTDMA ClassB transmission functionality.

CSTDMA is the short cut for „Carrier Sense Time Devision Multiple Access" which is used for AIS ClassB units. The vmsTRACK-PRO-CS operates on the principle „listen before talk". If a transmission is due, the transceiver watches the dedicated slot and if there is actually no transmission in the slot from a ClassA transceiver, then the CSTDMA unit starts transmission his own in this slot.

Features:

☑ **Additional emergency distress button**
By triggering the alert function, additional to the regular position report on special frequency, an official emergency message will be send out on both regular AIS frequencies to reach every AIS receiver within transmission range of the vmsTRACK.

☑ **„Who and Where" for coastal security, maritime domain awareness and fleet-management**
The real-time-knowledge of "who and where?" is very important in administration of coastal fishing fleets as well as in coastal boarder security issues.
By transmission of special names and unit IDs "friend or foe" identifying is possible.

☑ **Intelligent tamper-proof solution**
If the unit will be stolen or tampered, an intelligent high tech solution will trigger a flashing LED to inform the vessels Captain as well as a special information message is also send to base station immediately.

☑ **Individualization of vmsTRACK units**
The vmsTRACK units can be individualized by means of programming ship name, type of vessel as well as area of activity into the unit for transmission.

☑ **Optional Bluetooth® functionality**
Using the Bluetooth® LE connectivity of your smartphone, it is possible to remote control the vmsTRACK-PRO (push buttons) and to see the status (LED display)
Android® and IOS® apps are available to use this functionality.

Different power supply solutions

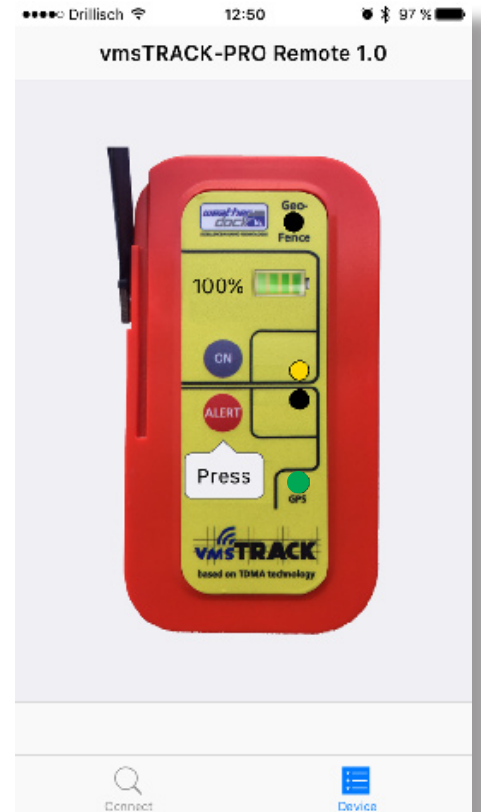There are 3 ways of using the vmsTRACK-PRO-CS with reference to power supply.

☑ **Charging station**
Staying independent by own rechargeable batteries going to be charged by own charging station (easyCHARGER A121)

☑ **Board net**
Fixed solution by means of connection to 9-32VDC board net power supply. This will give permanent intelligent recharging (special modification of charging station on demand).

☑ **Solar panel**
Persistant external power supply with permanent intelligent recharging. This will be a fully self contained solution for permanent operation.

Technical Data:

☑ **Transmission power: >=1 Watt**
☑ **Specifiable frequency range from 156.025 to 162.025 MHz, 25kHz channel spacing**
(please ask your local authority for costumer frequencies)
☑ **Operating temperature range: -10°C to +55°C**
☑ **Storage temperature range: -30°C - +60°C**
☑ **Dimensions: (LxWxH) 130 x 70 x 30 mm**
☑ **Weight: 250 g**

What is needed to run a vmsTRACK-PRO?

Each object going to be monitored needs a vmsTRACK. At onshore base station a receiving unit is needed, which is tuned to the same frequency the vmsTRACK units are transmitting on.

vmsTRACK-PRO Remote 1.0

easyRX2
(receiving unit - example)

Made in Germany