RMS2

Radio Messenger System

MHT Technology Ltd's Radio Messenger System

MHT Technology Ltd

Digital Transformation with Human Design

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The new Radio Messenger System ‘RMS2’ from MHT Technology is based on years of experience in the field. This is a licensable option within our VTW tank gauging software.

Learn more about our scalable, open solution suitable for depots, terminals, and refineries.

RMS Launched in 2012

Trusted by customers for over 8 years

In use on sites across the United Kingdom

Configurable using VTW

Overview

MHT Technology Ltd’s new radio messaging system ‘RMS2’ was launched in March 2020, enabling digital tank gauging systems to send timely warning notifications using existing radio systems.

RMS2 integrates with the VTW Tank Gauging System to automatically announce alarms over a site radio system. It simply requires an Ethernet connection to the tank gauging system and connection to a radio base station. The use of Ethernet means that the device doesn’t need to be physically close to the computer.

The industry is currently undergoing a huge digital transformation, affecting procedures and processes. The new features of our radio messaging system equip sites for these changes by allowing tank farms to become more efficient with **virtualisation** and **high availability.**

The launch of our first radio messaging system in 2012 allowed customer sites to be more robust and gave operators more independence.

It is a cost-effective way to ensure the highest safety standards on your site, while allowing operators to be more mobile. RMS2 allows announcements to be customised, and to choose which alarms are annunciated over the radio.

Message fragments are recorded and then collated within the system to build up the transmitted messages. The complete messages are then associated with specific events in VTW.

Staff can be warned automatically by alarms without the need to be in the control room. It gives staff the freedom to work anywhere on the site safely, knowing they won’t miss any critical warnings.

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What's new in RMS2

RMS2, unlike its predecessor, is based on a single board computer. Tank farm automation software can connect to RMS2 over the network instead of multiple relays and audio cables. The result of these advances in your virtualised IT infrastructure is making your tank gauging system both more reliable and resilient to inevitable hardware failures.

Redundant tank gauging systems can now be equipped with radio messaging, providing fault tolerance at both the software and operating system level. If you have a site in the UK and would like to see how RMS2 can benefit your site, come and speak to one of our team members to arrange a free demo.

Key Features

Human Voice

With RMS2 you can record messages using prefered accents to give clear warnings and notifications. There is no limit on the number of messages that can be recorded.

Automatic Transmission Wait

'Carrier operated relay' prevents transmission of messages while radio communications are in progress, meaning there are no interruptions.

Integration

There is no need for costly migration. You can keep your existing site radios, with no need to replace existing equipment.

Increase Operator Mobility

Free operators from being tied to the control room and allow them to move around the site more freely and independently.

Feature Comparison

	Klaxon	RMS	RMS2
Annunicates alarms	✓	✓	✓
Describes alarms		✓	✓
Configurable messages		✓	✓
Number of supported alarms	8	>1000	>1000
Support for virtualisation			✓
Support for redundancy			✓
High availability			✓

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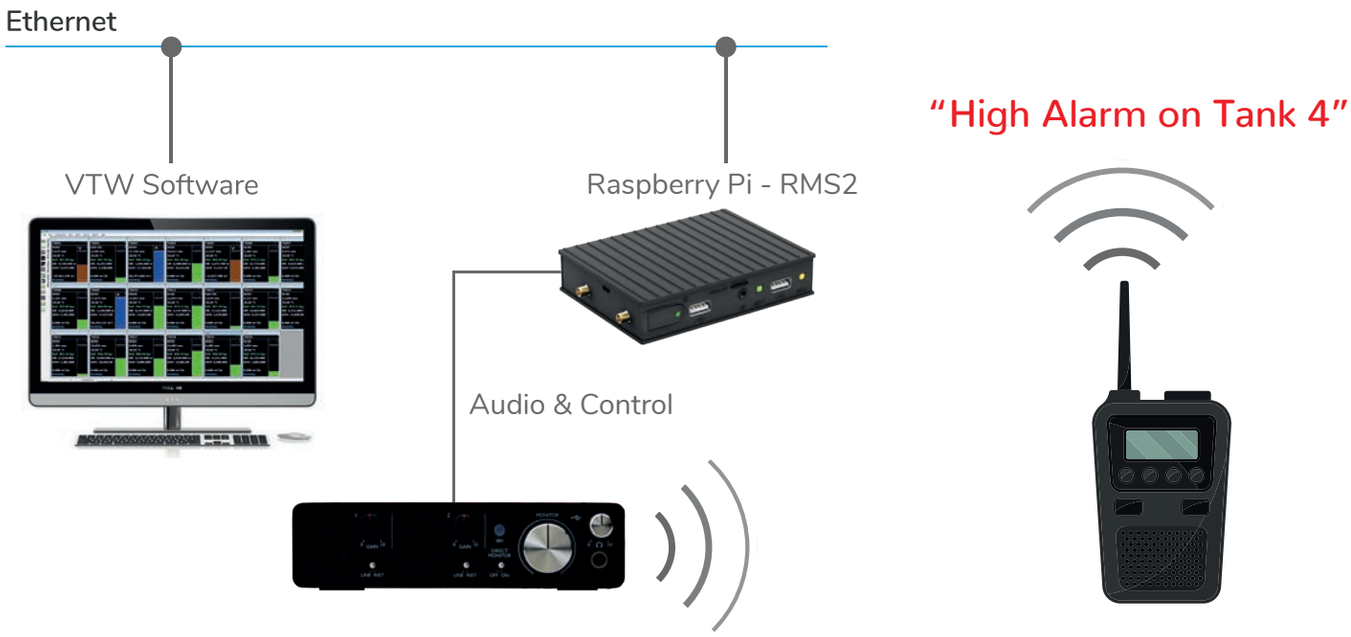
System Architecture

The relay cards used with the original RMS have now been replaced with a Raspberry Pi single-board computer, which connects to the VTW system via an Ethernet connection. The Raspberry Pi computer used for RMS2 can be configured to suit a range of different system architectures.

Configurable using VTW software



Technical Specifications

Supply Voltage:	Unregulated 10 V to 36 V
Dimensions:	112 x 84 x 25 mm
Enclosure:	All metal DIN rail/ VESA mountable
Cooling:	Passive cooling, fanless design
Weight:	0.5 kg
MTTF:	> 200,000 hours
Storage Temperature Range:	Commercial: 0° to 60° C
RAM:	1GB LPDDR2
Storage:	16GB eMMC Flash
LAN:	2x 100Mbps Ethernet ports RJ45 connectors
Power:	3.5 W
Compliance:	FCC/CE, RoHS-3
Relative Humidity:	10% to 90% (Operation) 5% to 95% (Storage)

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