

MultiFunk

The intelligent combination of radio frequency (RF) remote control and RF overfill prevention amplifier, which offers a multitude of control and readout functions in addition to satisfying the requirements of technical regulations and legislation.

In combination with our *MultiFlow* electronic flow-computer, the **discharged volume** or **flow rate** can be permanently displayed on the handheld controller. In addition, there is the option of restarting the discharge in 100-liter and 1000-liter increments with the **MultiFunk** Handheld Controller after the pre-selected delivery volume is reached.

The overfill prevention safety functions are implemented by the "**MultiFunk** Base Station" and "**MultiFunk** Overfill Prevention Amplifier". The "**MultiFunk** Handheld Controller" allows additional functions to be implemented.

PTB-Approval Certificate No: PTB 00 ATEX 2145

Application

The wireless **MultiFunk** Overfill Prevention Amplifier is connected by a plug and cable with the connecting socket of the overfill probe (thermistor type), and thus allows full functionality under the most difficult conditions. It is equipped with long-life high-performance rechargeable batteries, which ensure continuous power supply to the overfill probe for up to 12 hours. The status of the overfill probe is transmitted by RF link to the **MultiFunk** Base Station.

The **MultiFunk** Base Station permanently monitors the RF link with the **MultiFunk** Overfill Amplifier and controls the discharge valves, depending on the tank truck equipment and control circuit.



The **MultiFunk** Handheld Controller offers a multitude of additional remote control capabilities:

- **Motor Start/Stop:** The truck engine can be turned on or off by pressing a button.
- **Discharge Start/Stop:** Discharge can be started, cut off or interrupted, also by a press on a button.
- **Emergency Cut-off:** With one press on a button (Stop), discharge can be stopped and the engine simultaneously shuts down.
- **Engine Speed Control:** Optimised discharge control by stepless engine speed setting.
- **Deadman Switch:** Fulfils the requirements of water protection laws regarding hose monitoring. Automatic logbook recording when operating in by-pass mode.
- **Auxiliary Switch:** For hosereel rewind or other auxiliary function.

Technical Data:

MultiFunk Base Station:

(in the driver's cabin)

RF link:

Frequency 433 MHz, licence free, certified in Germany, France, The Netherlands and many other countries

Operating voltage:

24 V DC

Battery charging time:

- MultiFunk Overfill Monitor, approx. 60 min
- MultiFunk Handheld Terminal, approx. 60 min

Controls:

LEDs for battery charger ON and button for deadman-function bypass

Connections:

Internal: CAN Bus
External: serial interface RS232 or RS485

Input:

24 V, 10 mA

Ambient temperature:

-20°C to +50°C

Type of protection:

For use in **non-hazardous** areas only

MultiFunk Overfill Prevention Amplifier:

(mobile)

Rechargeable battery:

7,2 V NiMH (approx. 12 hours operation)

Type of Protection:

II 3 (1) EEx n A L [ia] IIB T4, Zone 2 (Category 3)

Overfill sensor:

Intrinsically-safe circuit, EEx ia IIB

Ambient temperature:

-20 °C to +50 °C

MultiFunk Handheld Terminal:

(mobile)

Rechargeable battery:

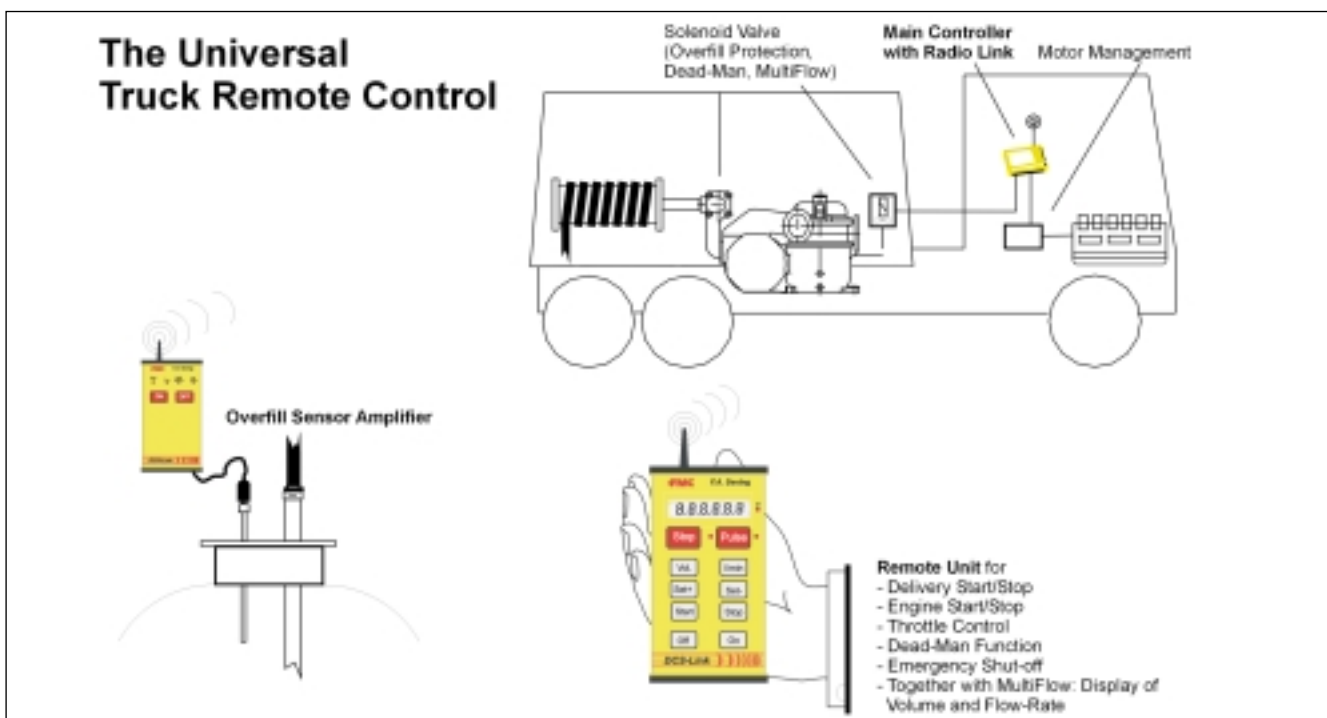
7.2 V NiMH (approx. 10 hours operation)

Display:

LC-Display with backlight, LEDs for low battery, communication, power ON and deadman switch

Type of protection:

For use in **non-hazardous** areas only



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Quality-Management-System approved to ISO 9001.