Product Information

SECU MultiGPS (Satellite-based navigation system in ex execution)

The SECU Multi GPS makes positional data available for the SECU MultiTank system or for other applications.

Avantages of the SECU MultiGPS

Position recognition of the tank truck
The SECU MultiGPS has always the position data of the tank truck.
These coordinates, all protocols (load and unloading activity) and the exact time are stored.

High-precision receiver
The SECU multi-GPS works with the newest SIRF III chip and can evaluate the current position with an inaccuracy of only 5 m.

ATEX certified for zone 1
The SECU MultiGPS is installed normally on the highest place on the tank truck and is certified for the ex zone 1.

Compatibility to other systems
The data of the SECU MultiGPS can be evaluated over RS232 and RS485 and also other electronic units can use the data.
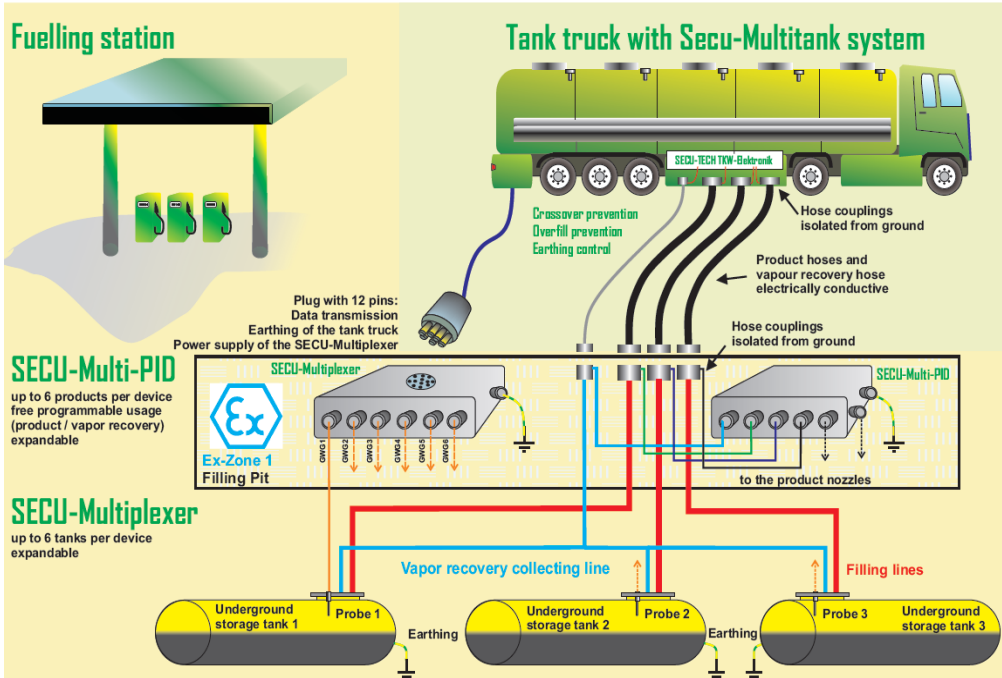
Highest security
The intrinsically safe supply of the tank truck devices ensures a high degree of safety.
The robust, weatherproof housing (IP 67) is appropriate for the hard daily use.

Communication over Modbus and RS232
All devices of the SECU MultiTank system communicate over a two-wire Modbus.
Interfaces outward e.g. to tank car electronics are possible with RS232 and RS485.

Product Information

SECU-Multitank - the comprehensive system for fuel distribution

Secu-Tech

Fuelling station

Tank truck with Secu-Multitank system

SECU-TECH TKW-Elektronik

Crossover prevention
Overfill prevention
Earthing control

Hose couplings
isolated from ground

Product hoses and
vapour recovery hose
electrically conductive

Hose couplings
isolated from ground

Plug with 12 pins:
Data transmission
Earthing of the tank truck
Power supply of the SECU-Multiplexer

SECU-Multi-PID
up to 6 products per device
free programmable usage
(product / vapor recovery)
expandable

SECU-Multiplexer

Ex
Ex-Zone 1
Filling Pit

GWG1 GWG2 GWG3 GWG4 GWG5 GWG6

SECU-Multi-PID

to the product nozzles

SECU-Multiplexer
up to 6 tanks per device
expandable

Vapor recovery collecting line

Filling lines

Underground
storage tank 1   Probe 1
Earthing

Underground
storage tank 2   Probe 2
Earthing

Probe 3   Underground
storage tank 3

Simplified diagram

Practical example
Installation of a
SECU MultiGPS on a
tank truck

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