TIMM

TRUSTED TECHNOLOGY

OVERFILL PREVENTION CONTROLLER EUS-2

HIGHEST SAFETY FOR BOTTOM LOADING TANK TRUCKS

Bottom loading of road tank trucks at **oil terminals** and **refineries** is characterized by simultaneous loading of fuels into closed tanker compartments with high loading rates and no possibility of manual supervision. To **prevent hazardous spills**, the accumulation of **electrostatic charges** and the **evaporation of emissions**, an emergency shut-off system, supervised grounding, and vapor collection is mandatory by law and to ensure safe loading processes.

FUNCTIONAL PRINCIPLE

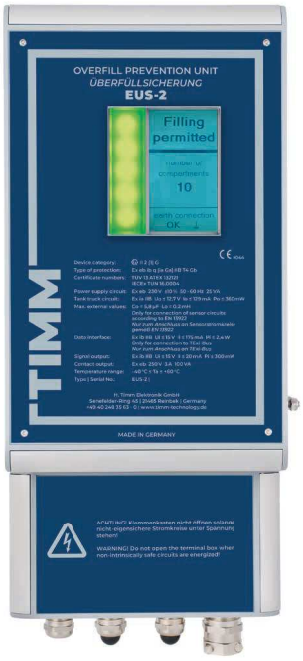
The Overfill Prevention Controller EUS-2 is the central part of the overfill prevention system according to **European VOC Directive 94/63/EC** and **American API RP 1004**. EUS-2 monitors the level sensors at the tanker compartments, the truck grounding and the vapor recovery connection. The filling process is interrupted immediately at the loading gantry, if a critical situation is detected. The controller is able to detect the type of truck installation and activates the required **operating mode automatically**. This **interoperability** allows to load trucks of different carriers.

APPLICATION AREAS

The EUS-2 controller is installed **at the loading gantry** and connected via its **control outputs** to the control system or loading computer. It is compatible to all trucks with optical or NTC thermistor high level sensors that are in compliance with **EN 13922** (both five-wire or two-wire). The sensors are mounted firmly at the tank compartments of the truck and wired to a standard connecting socket, to which the truck plug is connected. Products to load are for instance gasoline, diesel, jet fuel or ethanol (**gas group IIB**).

PRODUCT BENEFITS

- **Continuous self-test** of all safety-related functions
- **Plain text display** for messages **in native language** of the operator
- **Self-explaining** configuration via joystick navigation
- Supports up to **8 two-wire** and **12 five-wire sensors**
- **Widely visible** LEDs
- Two **self-monitored** control **outputs**, configurable outputs, and a serial data interface
- '**Parking position**' signal for the truck plug



IEPC Intelligent Explosion Protection Concept

HIGHEST LEVEL OF SAFETY
in hazardous areas

LEADING TECHNOLOGY
in monitoring, diagnostics, and configuration

EASY TO OPERATE
by ability to open housing in hazardous areas

EUS-2

TECHNICAL SPECIFICATIONS

Type of protection:
according to ATEX 2014/34/EU:
Ex II 2 [1] G – Ex eb ib q [ia Ga] IIB T4 Gb

Power supply:
230 V AC ± 10 %, 50 - 60 Hz, approx. 25 VA

Control outputs:
2 potential-free closing contacts
2 change-over contacts | 2 NAMUR-outputs

Operating temperature: - 40 °C up to + 60 °C

Approvals: ATEX, IECEx, EAC Ex, PESO, SIL 2

Tank Storage Award `17: Most invaluable product

ACCESSORIES*

COILED CABLES WITH PLUGS

for direct connection
extendable up to 7.5 m

with disconnector plug
extendable up to 7.5 m

10-pole plug | 4 locking bolts
acc. to EN 13922 and 2-wire

7-pole plug | 3 locking bolts
according to API RP 1004

JUNCTION BOXES

for direct connection
of two coiled cables

with disconnector socket
for one coiled cable

with disconnector socket
and "parking socket"
recommended

with two disconnector sockets
without "parking sockets" available

OTHER ACCESSORIES

Testing equipment

Plug hanger

Disconnector socket for installation on vapor recovery arm

*For further information and additional accessories, visit us at **www.timm-technology.de** or contact us in person.

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