



hydrostatic level indicator

benefits

- for fuel oil EL, L, diesel fuel, biodiesel and water
- graphical indication of consumption and remaining range
- with visual/audible alarms, Acknowledge button and 2 relays
- available with IoT-wireless module for transmissions of alarms to AFRISOcloud



Application

Continuous level measurement with graphical display for indication of consumption (history), calculation of remaining range (forecast) and signalling of minimum or maximum levels as well as for level control. TankControl 25 allows for transmission of alarms to the AFRISOcloud service for remote monitoring and alerts via e-mail or text messages SMS. Suitable for fuel oil EL, L (DIN 51603-1), diesel fuel (EN 590), water (no drinking water!), liquid fuels as per DIN SPEC 51603-6 and DIN/TS 51603-8 as wells as biofuel and biodiesel with up to 100 % FAME (EN 14214). This product is therefore ideal for all ecologically upgraded fuel oil consuming systems that use the new paraffinic fuels HVO or GTL as an admixture or 100 %.

For tanks from 1,000 to 4,000 mm liquid level.

In conjunction with an additional submersible probe for differential alarm also suitable for detecting level differences in communicating tanks (e.g. battery tanks) which may cause overfilling. It is also possible to connect a floating probe for backflow alarms (drain system, e.g. for rain water harvesting systems) or for additional minimum or maximum alarms. Suitable for use in flood hazard areas and flood risk areas.

Description

The hydrostatic level indicator consists of a control unit with numerical and graphical display and a submersible probe with integrated pressure measuring cell. Optionally with additional submersible probe for differential alarm or with floating probe. The system displays either litres, m³, % or liquid level (mm). When the level falls below or exceeds an adjustable minimum or maximum value, the control unit triggers visual and audible (can be acknowledged) alarms. The value for submersible probe 2 is displayed in mm. If an adjustable level difference between submersible probe 1 and submersible probe 2 is exceeded, an alarm is triggered. Two additional relay contacts with adjustable hysteresis and selectable switching points are available for external alarm devices, for level control or for connection to building control systems. Easy operation due to device setup via menus. High measuring accuracy due to electronic sensing. Standard tank shapes are stored. Probe watertight up to 10 m water column.

Version TankControl 25

Version with NB-IoT wireless module, including 10 years' free data transmission – licence renewal can be renewed at any time via the AFRISOcloud. All measurement data and alarm messages are transmitted to the AFRISOcloud on an hourly basis for 24/7 remote monitoring. Additional alarm thresholds (for example, for maintenance activities) can be set here. You also set up different user configurations for owners and maintenance staff. The alarm message can be sent via e-mail and/or text message.

Additional Informations

Function

Selection of units (l, m³, %, m, cm, mm), daily saving of level data, consumption monitoring, graphical evaluation of consumption values (up to 5 years), calculation of remaining range, alarm functions (min./max./difference), sensor error and short circuit alarms.

TankControl 25: Transmission of data and alarms to AFRISOcloud.

Technical Specifications

functions

units switching,
daily storage of level data,
consumption monitoring,
graphical evaluation of consumption values (up to 5 years),
calculation of remaining range,
alarm functions (min./max.),
sensor error and short circuit alarm

Measuring range

0/400 mbar

Measuring accuracy

± 1.5 % FS

Operating temperature range

Medium: -5/+70 °C

Ambient: -5/+55 °C

Storage: -5/+65 °C

Display

High-resolution TFT display (50 x 70 mm). Indication of either litres (6 digits), m³, % and liquid level in mm.

Submersible probe

L x ø: 53 x 24 mm

Housing: Stainless steel 304

cable: PVC, 6 m

diaphragm: Stainless steel 316 L

seals: FKM (Viton)

Spacer: POM, PE

Degree of protection: IP 68 (EN 60529)

Options

- Submersible probe for differential alarm
- Floating probe (spare probe Minimelder)

Supply voltage

AC 100 – 240 V

Buffer capacitor saves data in the case of power outage (calendar function)

Switching output

Relay contact: 2 voltage-free changeover contacts

Contact rating: AC 230 V, 2 A

visual alarm

Text message with red background on display

audible alarm

integrated piezo-buzzer, can be acknowledged

Housing

Wall mounting housing made of impact-resistant plastic (PC/ABS)

W x H x D: 100 x 188 x 65 mm

Degree of protection: IP 54 (EN 60529)

Scope of delivery

- Control unit with TFT display and 15 m connection cable to the probe (cannot be extended)
- Submersible probe with 6 m submersible cable
- Moisture-proof junction box (IP 54)
- Screw connector kit G1 x G1½ x G2
- mounting kit for withdrawal flange at plastic battery tanks

Option

- Submersible probe for differential alarm
- Floating probe (spare probe Minimelder)