Digital tank contents indicator DTA 20 E

Benefits

- Plug & play level indicator for smart home systems based on EnOcean® wireless
- Daily measurement and worldwide access to consumption data
- Local display and push message (adjustable) when minimum level is reached
- For fuel oil, (bio) diesel, water and other media with a density between 0.5 and 1.5 g/cm³
- Materials resistant to biofuel and biodiesel with max. 100 % FAME
- Green fuels ready: suitable for use at tank facilities filed with the new paraffinic fuels HVO or GTL

Application

Location-independent level measurement with digital display and minimum level signal (reserve level alarm) with a single measurement. If the product is operated in conjunction with the AFRISOhome gateway, the tank operator/owner can read the level on a mobile device in addition to the local display. For tanks with fuel oil EL, L (DIN 51603-1), diesel fuel (EN 590), water (no drinking water!), AdBlue®, liquid fuels as per DIN SPEC 51603-6 and DIN/TS 51603-8 as well 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 maximum accuracy of the displayed measured value, determine the density of the medium and set it at the DTA when using these fuels. DTA can be used with all non-corrosive liquids with a density from 0.5 to 1.5 g/cm³.
Suitable for tanks up to 400 cm liquid level. Remote measurements (measuring line) up to 15 m.

Versions

	Part no.
Tank contents indicators DTA 20 E with Pneumofix 2 mounting kit	52146
Tank contents indicators DTA 20 E	52156

Blue part no. = in-stock items

Description

The electro-pneumatic tank contents indicator DTA 20 E consists of a battery operated control unit, an EnOcean® wireless module, a digital display and a measuring line. Measured values are displayed in litres, % and liquid level (cm). Simple operation and setup via three function keys at the device. DTA 20 E measures the level (adjustable interval) and transmits it to the AFRISOhome gateway via EnOcean® wireless. In addition, measurements can be taken by means of pressing the control key (Push-to-Read function). If the level falls below a minimum level that is freely adjustable as a percentage, the backlight of the display flashes red to indicate an alarm during the measurement. In addition to indication on the local display, the tank owner/operator can receive a push message on the smartphone or tablet. Standard tank shapes (linear, spherical, cylindrical and horizontal) are stored.

Technical specifications

Functions
Periodic level measurement (1 to 240 hours) with wireless transmission to master systems such as AFRISOhome gateway
Push-to-Read level measurement

Measuring range (tank height)
Fuel oil: 0/400 cm
Water: 0/350 cm

Measuring accuracy
± 3 cm

Operating temperature range
Ambient: 0/50 °C
Storage: -20/+65 °C
Medium: 0/50 °C

Display
Multi-coloured, backlit graphical display,
White = Operation,
Red = Alarm,
Green = setup,
Indication of litres (5 digits), % or liquid level in cm

Measuring line
PVC hose 4 x 1 mm
Length: 20 m
Bottom part: Stainless steel

Supply voltage
9 V monobloc battery

Minimum alarm
Backlight flashes red
Push message to mobile devices

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 20 (EN 60529)

EnOcean® wireless
EEP: Generic Profile (GP)
Frequency: 868.3 – 868.3 MHz
Transmission power: Max. 10 mW
Range: 10 – 30 m
Range: depending on room arrangement and materials in the building

Scope of delivery
- Control unit with battery
- Pneumofix type 2: 20 m measuring line with bottom part, connection kit for G½, G1, G1½ and G2, 30 x nail cable clips, hose connectors (4 x 4 mm), mounting accessories

Necessary additional components
- AFRISOhome gateway