Fuel Tank Monitoring

farmdeck

powered by Outcomex

Sensor Description

Working with the Farmdeck app, the fuel tank sensor measures fuel tank levels using magneto strictive technology commonly used by fuel depots, oil terminals, oil field refineries and petrochemical companies.
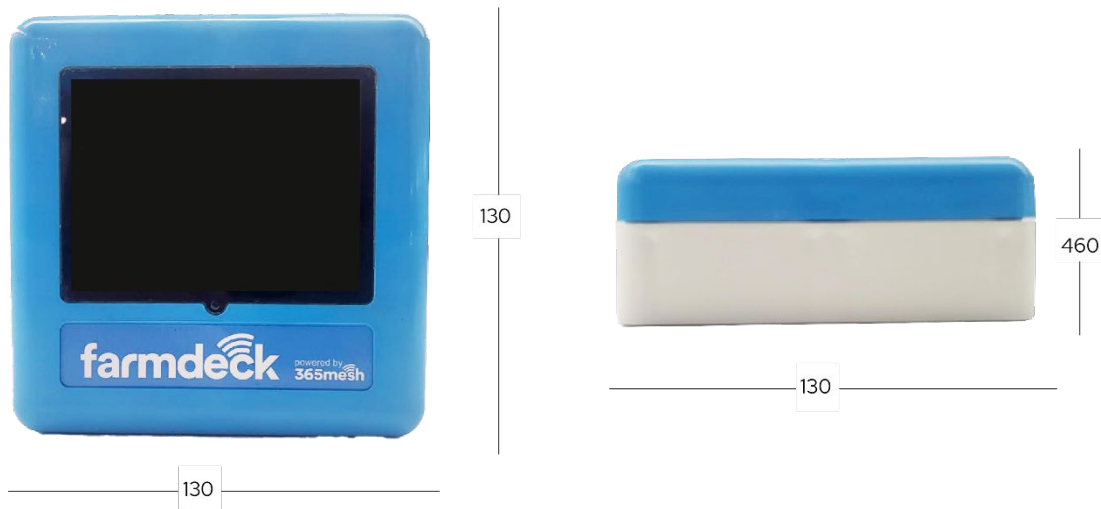
Features

- Measures product level
- Measures water level
- Measures five-point temperature

Applications

- Gasoline
- Diesel
- Biodiesel
- Crude oil
- Palm oil (CPO)
- Kerosene
- Ethanol gasoline
- Water
- Light oil
- Chemical
- Methanol gasoline

130
130
460
130

Mechanical Features

Housing	Two part air tight case, lid with rubber seal-tight edges
Dimensions (mm)	130 x 130 x 46 mm
Weight	approx. 155 grams, 190grams (with battery)
Case Material	ABS, polycarbonate and polyester

Device Power Supply

Battery	Solar panel with 1000 mAh battery
Expected battery life	Up to 5 years

Operating Conditions

Temperature	-40°C to +125 °C

Radio/Wireless Connection

Wireless technology	LoRaWAN 1.0.3/1.1
Supported LoRaWAN device type	Class A End-device
Supported LoRaWAN Regions	US902 - 928,AS923, AU915 – 928, KR920-923
Configuration	OTAA, ABP, ADR

Data Type

0-6 Bar gauge pressure	(0-87 psi)
Readings	10 minutes - 1 hour readings
Accuracy	+/-1% FS

Optional Cellular Connection

Wireless Technology	LTE-M/NB/IoT
Supported LTE Bands	LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66 NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13
SIM card and format	Internal Nano 4FF SIM