



KF281S

BLE Powered Fuel Level Sensor

This series of fuel level sensors is designed for precise measurement and monitoring of liquids such as gasoline, diesel, lubricating oil, and coolant. By leveraging wireless Bluetooth or wired output technologies, these sensors cater to a wide range of applications, from portable devices to complex industrial environments. Whether for vehicle fuel consumption management or industrial tank monitoring, our sensors provide a comprehensive solution with high precision, reliability, and durability.



Logistics



Public Transport



Construction Machinery



Capacitance-Based Detection

The sensor uses capacitance detection technology to accurately monitor fuel level changes.



Adjustable Length

The sensor length can be trimmed to fit different tank sizes, ensuring precise detection based on actual requirements.



Flexible Configuration

Various power supply options (e.g. battery-powered external power sources) and multiple communication methods (e.g. Bluetooth, serial port) are available to meet diverse environmental needs.



Easy Calibration via App

Calibration process is simplified as empty and full calibrations can be performed via a mobile app, enabling quick and precise fuel level detection while enhancing user convenience.

Specifications

Measurement

Product type	Bluetooth cut-off
Measuring medium	Gasoline/diesel/lubricating oil/coolant
Probe length	1000mm
Measurement range	0–1000mm
Measurement accuracy	≤ 1% FS
Response time	1 second
Resolution	0.5mm

Features

Bluetooth	BLE 5.0
Output interface	N/A
Transmission distance	50m (unobstructed Bluetooth) 95cm (power cable) + 200cm (extension cable)

Operating environment

Operating temperature	-40 C to 75 C
Storage temperature	-40 C to 75 C
Humidity	5% to 95% (non-condensing)

Physical specifications

Overall structure	Column type
Body material	Aluminum alloy
Weight	579g (extension cable included)
Installation method	Five-hole flange, top-mounted
Flange size	Outer diameter 70mm, Inner diameter 20mm

Power

Battery	N/A
Input Voltage	5–36V