MFS–310B

Bluetooth Oil Level Sensor

The MFS-310B Bluetooth Oil Level Sensor uses advanced radar detection combined with a wireless BLE 5.4 design to deliver accurate, maintenance-friendly fuel level monitoring. With 99.5% detection accuracy and a cuttable capacitor tube (10-100 cm), it adapts to various tank sizes without complex wiring. Built with no moving parts and powered by a long-life replaceable battery, the sensor ensures stable performance under extreme temperatures and vibration. Its IP69 waterproof and explosion-proof ratings make it suitable for petrol, diesel, LPG, and other non-conductive liquids across demanding fleet environments.



Product features

Wireless installation

Bluetooth wireless communication supports up to 100 m transmission range (without interference), enabling fast deployment without complex wiring.

Built–in replaceable battery

Equipped with dual 2700 mAh batteries, delivering up to 7 years of operating life and supporting replacement to reduce long-term maintenance costs.

Built–in millimetre–wave radar

Integrated millimetre-wave radar provides 0.2-5 m detection range with 99.5% accuracy, ensuring stable performance unaffected by lighting or vapor conditions.

Capacitor tubes that are easy to install and can be cut to size

Modular capacitor tubes can be easily cut from 10-100 cm, allowing flexible installation across different tank sizes and shapes.

Waterproof rating IP69

Fully sealed design ensures reliable operation in high-pressure washdown, humid, and harsh outdoor environments.

Explosion–proof rating II 1 G Ex ia IIB T6 Ga

Certified explosion-proof design suitable for hazardous areas, supporting safe use with petrol, diesel, LPG, and other non-conductive liquids.

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Product specifications

Millimetre-wave radar	Detection range	0.2~5m
	Horizontal detection angle	100°
	Vertical detection angle	120°
	Operating temperature	-40~85℃
Battery	Working life	Seven years
	Capacity	2*2700mAh
	Operating temperature	-55~85℃
	Detection accuracy	99.5%
Working environment	Operating temperature	-40~85℃
	Storage temperature	-45~85℃
Others	Bluetooth	BLE5.4 Supports a maximum distance of 100 metres (in the absence of interference and obstacles)
	Waterproof rating	IP69
	Explosion-proof rating	II 1 G Ex ia IIB T6 Ga
	Dimension	98x45x（L）,L：Measure the length of the pipe section,10~100cm,（Supports cutting）
	Weight	1kg when L=70cm
	Supported tank materials	Aluminium, plastic, metal, ions, stainless steel
	Liquid level	Petrol, diesel, liquefied petroleum gas or other non-conductive liquids