

# Precision Endures Reliability Lasts

## PLS-5BY Magnetostrictive Probe



3"

2"

Wireless Suite

The PLS-5BY Magnetostrictive Probe delivers exceptional accuracy and reliability in measuring fuel and other liquid levels inside storage tanks. Engineered with flexibility in mind, the PLS-5BY is designed to perform in complex environments—from compact tank spaces to large industrial installations.

With its durable construction, advanced temperature compensation, and compatibility with a wide range of ATG consoles, the PLS-5BY ensures stable, real-time inventory data and precise leak detection. When paired with the OKet<sup>®</sup> PD-350/PD-300 Series console, it forms a powerful combination for comprehensive, cost-effective fuel management.

The PLS-5BY offers versatile configuration choices, including 3" and 2" probe options with wired or wireless connectivity, for enhanced product quality control. This flexible design ensures the right solution for any site setup while delivering accurate and reliable tank monitoring.



## Wired Probe

Designed for flexible deployment, the PLS-5BY is available in customized probe lengths to suit common tank depths and can be adapted for specific media (gasoline, diesel, kerosene, ethanol blends, with appropriate kits). The probe provides very high precision and repeatability with product and water standard factory accuracy within  $\pm 0.5$  mm, and temperature accuracy of  $\pm 0.2$  °C, enabling precise wetstock management and reconciliation. It supports standard RS-485 communication for robust and long-distance data links.



## Wireless Suite

**Cable-free installation**-Eliminates complex wiring work, ideal for retrofit projects and remote sites.

**Reduced installation cost and time**-No need for conduit or underground signal cables.

**High communication stability**-Secure, low-power, wide-area, and reliable wireless data transmission by using LoRa technology.

**Low power consumption design**-Ensures long-term operation with minimal maintenance.

**Full compatibility**-Works seamlessly with OKet® PD-350/PD-300 series ATGs and Tank eye software platform.

**High accuracy**-Maintains the same precision as wired probes, with robust environmental protection.



### Wired Probe

Applicable medium	Gasoline, Diesel, Kerosene, Ethanol Gasoline, and other common petroleum liquids
Measured variable	Product level, water level and temperature of 5 sensors and average temperature
Vessel pressure	±0.015 to 0.2 MPa
Product level accuracy	±0.5 mm
Water level accuracy	±0.5 mm
Temperature accuracy	±0.2 °C
Repeatability	±0.1 mm
Response time	<1 second
Leakage detection function	0.2 GPH
Explosion-proof grade (Safety level)	Ex ia IIB T4 Ga (Intrinsically safe)
Temperature	-40 °C to +70 °C
Lowest product inactive zone	With 3" float 100 mm
Lowest water inactive zone	With 3" float 15 mm
Float/Canister	3" or 2"
Probe length	0.6–4.0 m (Special customization for 4.0–6.0 m)
Method of communication	RS-485 (Special customization for Hart)
Power supply	DC 24–26 V
Protection rating	IP68
Cable	4-core shielded cable
Console compatibility	PD-350/PD-300 series & SloT-100 (Wired and wireless)

### Wireless Suite

Ambient temperature	-40 °C to +60 °C
Protection rating	IP67
Explosion-proof grade (Safety level)	Ex ia IIB T4 Ga
Explosion-proof certification	ATEX, CNEX, IECEx
Power supply	DC 7.2 V (Battery powered)
Battery life	4–5 years (For probe only)
Communication interval	10–120 sec (On demand)
Antenna interface	SMA-K
Frequency band	433 MHz (423–443 MHz) (Default) 925 MHz (920–925 MHz) (Optional)
Communication distance	800 m (No obstructions)

