



PROPANE TANK LEVEL SENSOR — LORAWAN ...

Remote Propane Tank Monitoring



KEY FEATURES

- Propane-Ready R3D Integration: Factoryintegrated Rochester 9704 Gen-4 probe for JR/SR R3D™ dials (straight, 6-ft lead). Ships as a complete kit—no field wiring or programming—so installers get a true drop-in propane solution.
- Instant Tank Visibility: Reports percent full (and optional gallons) with configurable low-level alerts. Every uplink also includes raw probe volts and a link-quality snapshot for quick, transparent diagnostics.
- Multi-Year, Fleet-Friendly Operation: Dutycycled 5 V sensor power and a high-capacity Li-SOCI, battery deliver multi-year life at typical 10-30-minute intervals. Supports OTA firmware updates.

DEVICE OVERVIEW

Battery-powered LoRaWAN® sensor that reads a Rochester 9704 R3D™ gauge sender and reports propane tank capacity percentage (%), propane consumption (gals) as well as remaining tank gallons to your dashboard within the ioX-Connect platform. The ioX end node briefly powers the probe each reading (for long battery life), measures the probe's radiometric voltage, and transmits both % full and raw volts with a link-quality snapshot.

ioX-Connect End-node platform: LoRaWAN v1.0.3 Class A, OTA-configurable.

R3D DIAL REQUIREMENT & SAFETY NOTICE

This product is designed for use with Rochester **R3D™** magnetic dials (JR/SR). If your tank does not have an R3D-compatible dial, do not attempt to change the dial yourself. Contact your propane supplier or qualified service provider to install an R3D replacement dial. The internal float gauge does not need to be replaced—only the external dial face is changed. All work must be performed by licensed personnel in accordance with applicable codes (e.g., NFPA 58). Using a non-R3D dial may result in inaccurate readings and unsafe conditions.



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Key Specifications — Summary

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Item	Specifications
Product	Propane Tank Level Sensor (LoRaWAN)
Use Case	Remote monitoring of propane tank level (% full)
Gauge Compatibility	Rochester R3D™ dials (JR & SR; vertical/horizontal)
Probe Variant Supplied	Rochester 9704 – Straight Gen-4 module, JR/SR R3D, 6-ft lead
Reported Fields (default)	Propane_Level_Percent, VDC_V (probe volts), BATTERY (V), LoRa link snapshot (RSSI/SNR, gateways heard, data rate, frequency)
Recommended Alerts	Warning < 20 %, Critical < 10 % (tune to operations)
Typical Applications	Residential & light commercial tanks (120/250/500/1000 gal), delivery optimization, low-level alarms

OTHER TECHNICAL FEATURES

- LoRaWAN Version: v1.0.3, Class A
- Supply Voltage: Built-in Battery , 2.5v ~ 3.6v
- Power Options: 8500mAh Li-SOCI2 or Solar Powered 3500mAh option
- Self-Discharge: <1% / Year @ 25°C for 8500mAh Li-SOCI2 battery
- Operating Temperature: -40 ~ 85°C
- Downlink Configuration: Remotely configurable via ioX-Connect platform or ioX-LoRaWAN Network Server

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- Firmware Updates: Wireless OTA (Over-The-Air) firmware upgrade capability
- Supported Frequency Bands: CN470, EU433, KR920, US915, EU868, AS923, AU915, IN865, RU864
- Reporting Interval: User-configurable (typ. 10–30 min for battery life)
- Enclosure: Industrial outdoor-ready housing (contact us for options/ratings)





