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REVOLUTIONARY | MODERN | ECONOMICAL

Cryogenic Asset Monitoring Telemetry Solutions

THE RAIGAD GROUP

The Raigad Group (TRG) is an industrial gas and equipment manufacturing and trading firm based in Mumbai, Maharashtra since **1965**.

TRG runs 6 manufacturing plants manufacturing and refilling all industrial, medical, UHP, and mixture gases.

We are authorised distributors of various multi-national companies for their range of gas related products.



MANUFACTURING OF INDUSTRIAL,
MEDICAL, CALIBERATION & UHP GASES



CRYOGENIC LOGISTICS



PRE-ENGINEERED BUILDINGS,
STEEL STRUCTURES & COLD ROLL FORMS



LEVEL & PRESSURE MONITORING SYSTEM
CRYOGENIC ASSETS (ASIA - GULF)



AUTHORISED LPG DISTRIBUTOR
(WESTERN REGION - INDIA)



Taylor-Wharton

P.L.C. & MICROBULK CYLINDERS
(AUTHORISED DISTRIBUTOR -PAN INDIA)



ROOFTOP SOLAR SOLUTIONS
RESIDENTIAL & COMMERCIAL

**Authorized Distributor
South East Asia & Gulf**



More than 10,000 units installed globally.

GAS ASSET MONITORING SOLUTION



Pulsa is enabling companies to run their gas distribution operations based on accurate information and 100% visibility by providing :

1. Extremely durable, compact, and economical telemetry hardware for installing cryogenic and pressurised gas assets with low upfront investment.
2. Powerful, intuitive, and simple-to-use software to be used by internal teams and end customers for tracking real time and historical level + pressure data of all assets, share data with all stakeholders, and audit usage vs billing data for zero errors.
3. Reducing total operating and distribution cost of gases, and better customer service through pro-active decisions based on real-time data.

WHY PULSA?



Multiple sensors connected via
one gateway



Track **real time level & pressure levels** of all cryogenic & gas assets on one platform.



Seamless Set-up in **< 30 minutes** per asset. No buttons. No configuration on site.



Economically viable for company-wide deployment



Wireless Cellular Gateway with **pre-installed global SIM.**



A truly **Plug-n-Play** Solution.



Best-in-class **replacement warranties.**

HOW PULSA WORKS

Plumb Sensors + Plug-in Gateway + Start Using



Differential Pressure Sensor



2900 PSI
6000 PSI

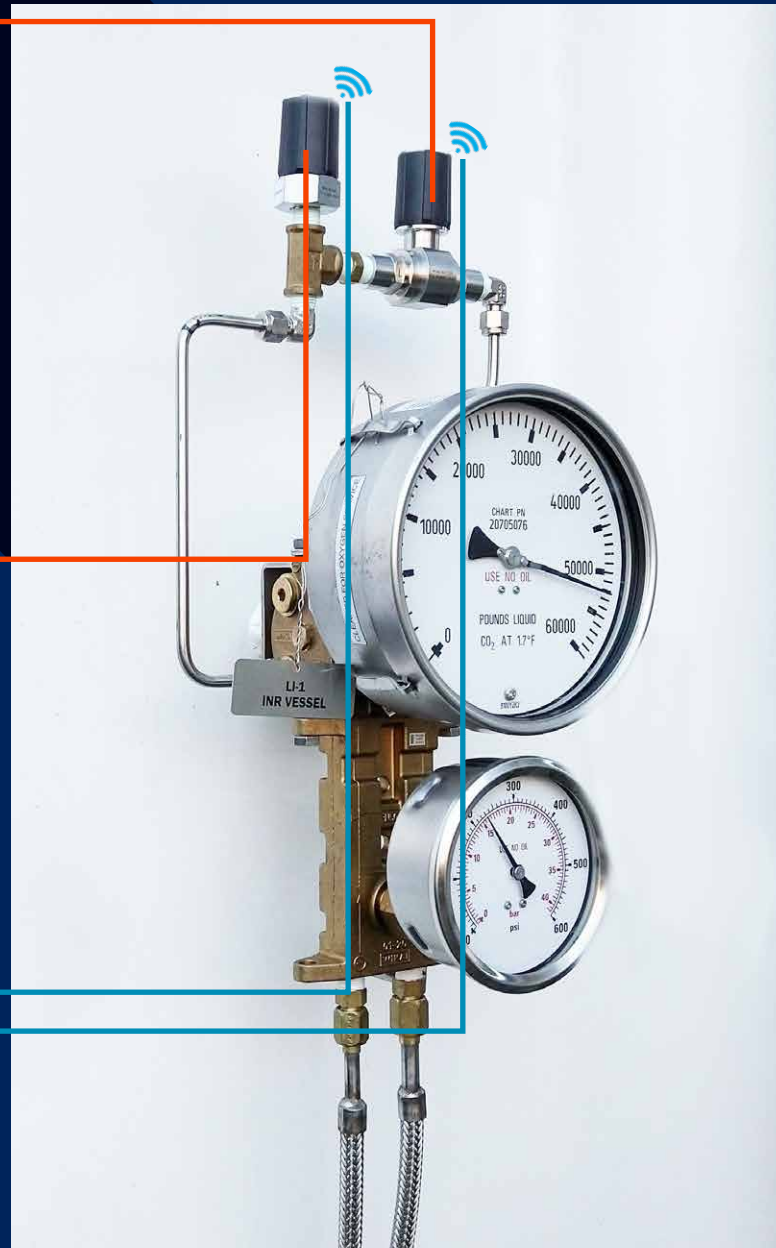
Pressure Sensor



Wireless Gateway



Wirelessly receiving levels from DPS and PS seamlessly



Installation On Cryogenic Tank

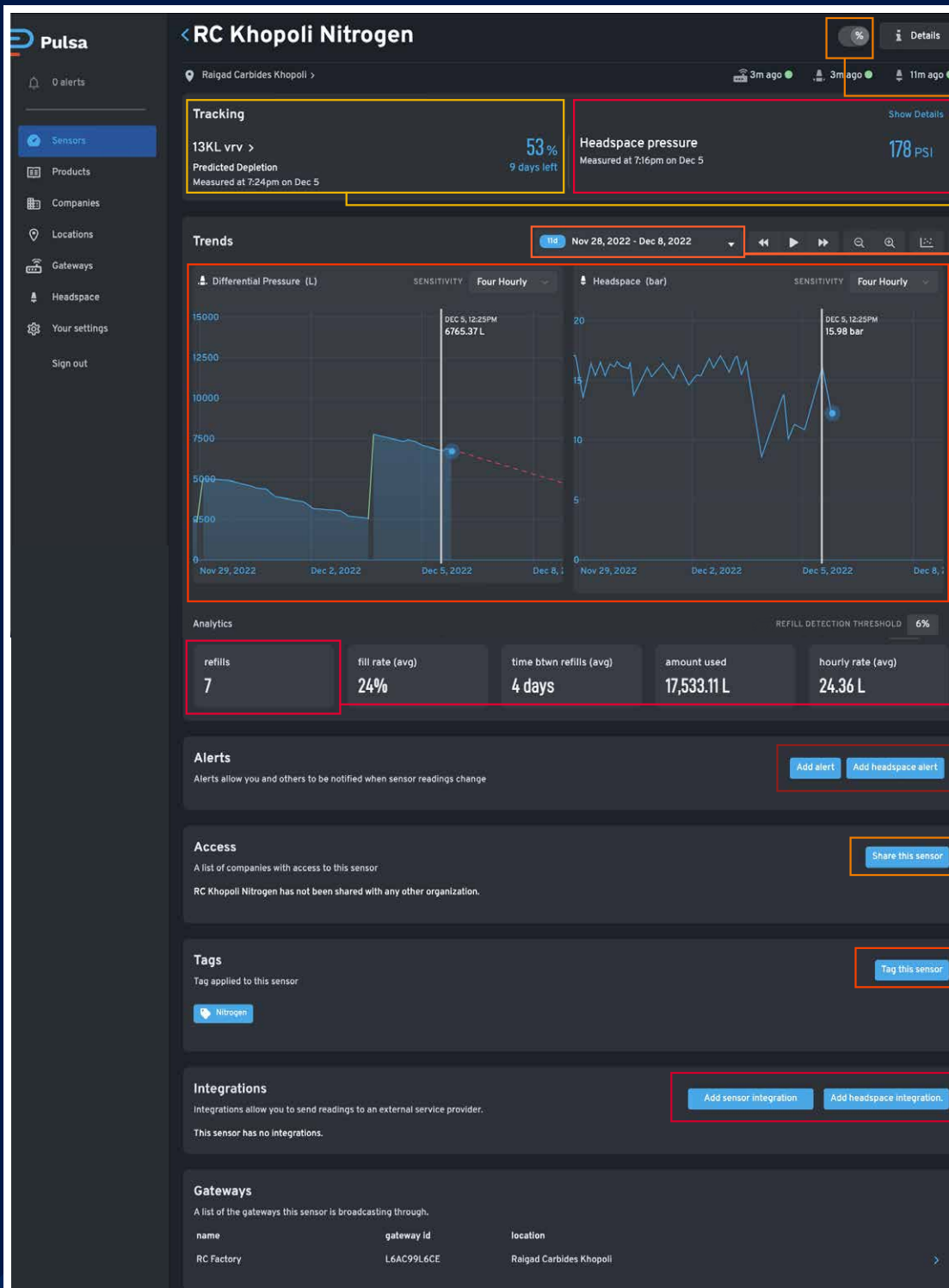
Other Pulsa Products



Solar Kit



Pulsa Link
For Third Party Sensors



Values in: L | Kg | %

Real Time Pressure

Real Time Level

Historical Data

Graph View

SOFTWARE FEATURES

"No. Of Refills" Features

Customisable Email Alerts

Share Sensor with Unlimited Users

Customisable Tags for Filtering Sensors

API Integration Option

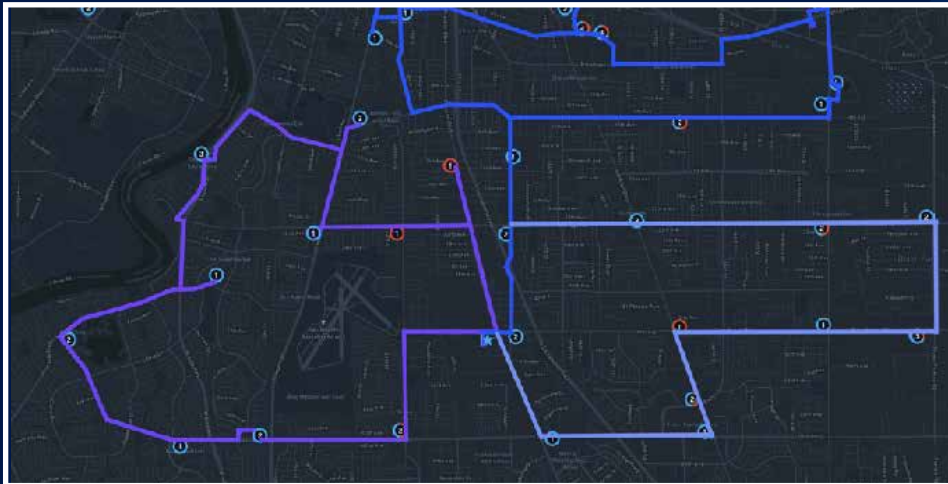


USES OF PULSA TELEMETRY SOLUTIONS

1. **Viewing, analysing and auditing** of all gas assets' real-time and historical level and pressure readings.
2. **Share real time data** of all cryogenic and gas assets internally with teams and externally with suppliers or customers.
3. **Super - optimized distribution planning** of gases to various assets through various filters and map view - Saves time and money.
4. **Lower man-power requirements** for managing multiple assets as zero communication required with client for planning.
5. Auditing no. of refills vs billing through 'No. of refills' feature of Pulsar - **Reduce billing errors to NIL.**

HOW PULSA HAS TRANSFORMED INDUSTRIAL DISTRIBUTION

Before Pulsa



- Routes conducted based on consumption estimates and customer call-in orders
- Troubleshooting visits are emergencies, stockouts, other install issues go uncaught for months
- Telemetry only available and economical for bulk and assets

After Pulsa



- Routes defined based on actual customer levels - reduces deliveries by 30-60%
- Sensors on site monitoring line pressure, temperature, and environmental stats to proactively address issues
- Plug & play affordable sensors available for all industrial gas assets + environmental monitoring

INSTALLATION PICTURE GALLERY



6000psi (410bar) pressure sensor on Nitrogen manifold



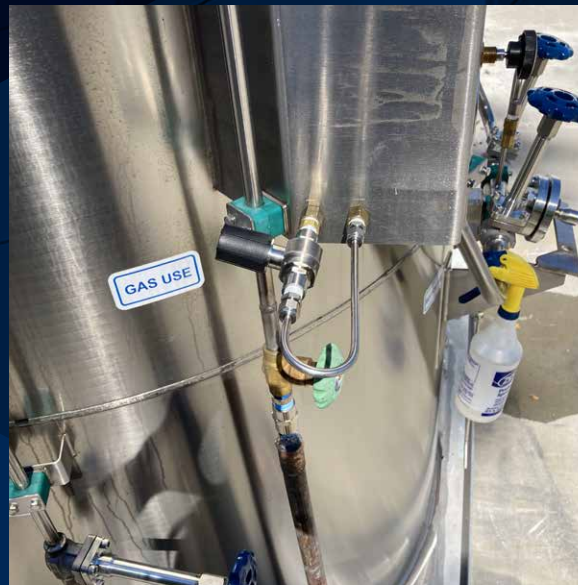
Differential Pressure (Level) Sensor + Pressure Sensor on Cryo Tank



Level + Pressure Sensor on Cryo Tank



Differential Pressure Sensor (Level Sensor)



Differential Pressure Sensor (Level Sensor) in 3KL Microbulk Tank



Solar Kit for Cellular Gateway

THE RAIGAD GROUP

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