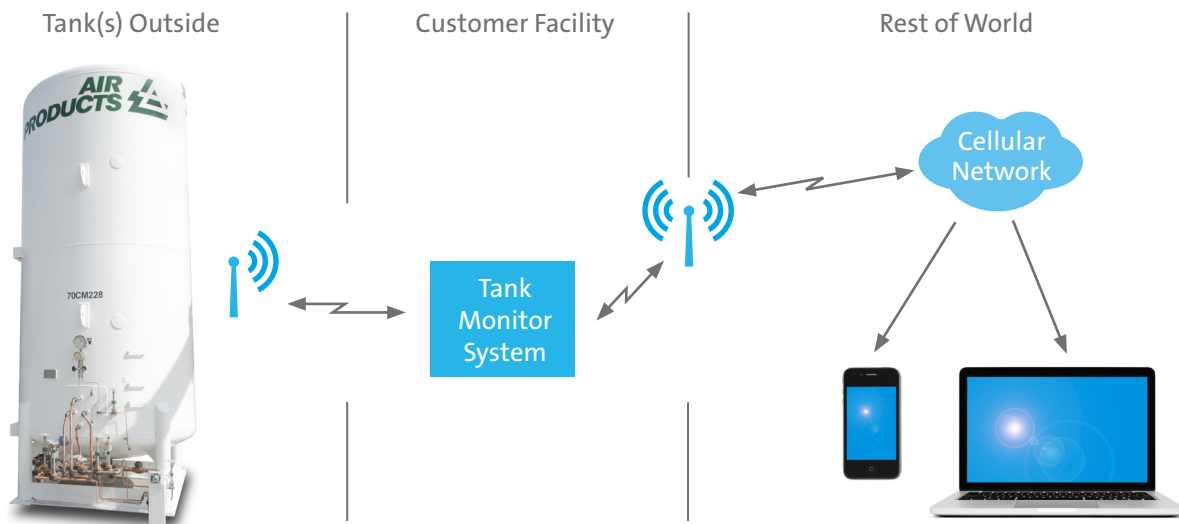


Tank Monitoring System

Remotely monitors gas storage tank levels.



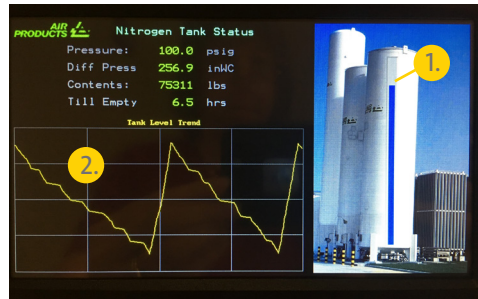
Air Products' Tank Monitoring System is a convenient, reliable way to remotely monitor your storage tank levels. Not only does this system help you manage your industrial gas supply, but it also allows detection of abnormal gas usage and tracking of tank liquid and gas vaporizer temperature. All data is conveniently stored and remotely accessible via a secure system. This SMART system features Air Products' Process Intelligence—our IIOT (Industrial Internet of Things) driven approach to process optimization, applying decades experience in gas supply, applications knowledge and safety.



Installation includes differential pressure and optional pressure transmitter at the tank, along with a battery powered Wireless Intelligent Node (WIN). The WIN takes tank readings at preset intervals (typically 1-2 min) and transmits the data wirelessly to an indoor receiver (gateway). Each WIN can handle two tanks and there is no limit to the number of tanks that can be monitored at a facility.

An example of the data acquisition display is shown below. Included is a color touch screen, an interface board, a gateway to receive the data and an optional cell router for transferring data to the cloud. A tower light is also available for status indication and/or alarm.

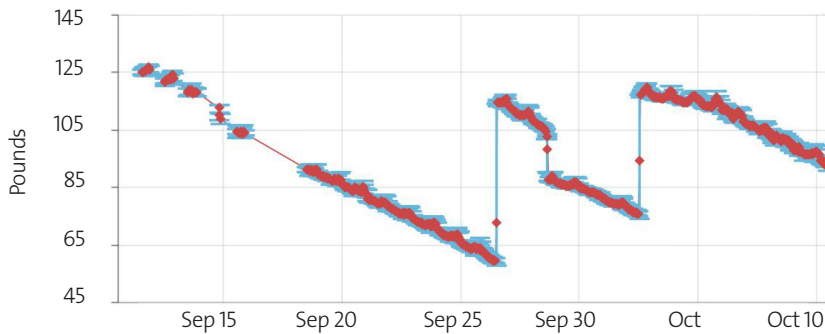
Customer Facility



- 1. Tank level display
- 2. Tank level trend

Tank Contents

Last timestamp: 10/10/2017 1:44:33 (UTC: 10/10/2017 1:44:33 PM)



System Benefits

- Detects abnormal product usage, e.g. high withdrawal rate during weekend shutdown
- Delivers data values via customer's PLC, DCS, etc. through Ethernet or serial communications
- Monitors the liquid/gas temperature
- Integrates multiple tanks into the monitoring system
- Tracks additional data and reporting with other smart connected equipment
- Sends alerts via text messaging or email
- Provides local alert via a visual tower light on the display
- Allows remote access via any internet-enabled device
- Integrates a secure system
 - Encrypted data transmission
 - Cellular for transmission only
- Allows remote access via any internet-enabled device

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