

**Cost-effective Local and Remote Telemetry Monitoring Solution to manage cryogenic liquid gas tank (vertical or horizontal) using a wireless, compact, sensitive sensor, and solar-powered to reduce installation time and cost - 1 m3 to 60 m3 - Industrial and Medical gases - Oxygen, Nitrogen, Argon, Carbon Dioxide, and Nitrous Oxide Easy, fast, and inexpensive installation for setup and startup**



- Measure** accurate actual use
- Predict** expected tank level
- Monitor** pressure and level
- Alerts** to manage issues
- Manage** for continuous availability

**HIGH PERFORMANCE COMPACT CRYOGENIC GAS TANK PRESSURE & LEVEL REMOTE MONITORING DEVICE**

**JUST IN TIME, CRYOGENIC LIQUID GAS DELIVERY IT SAVES TIME AND MONEY**

Cryogenic liquid gas use is gaining popularity. As a gas supplier, you want to supply gas to customer tanks, and as a gas user, you want to ensure that you have adequate supplies to run your business: Both parties need to know how much liquid gas is in the tank and when to deliver\reorder. As a result, the supplier can manage its production and use its logistical assets more efficiently and cost-effectively. Likewise, the user can reorder promptly and manage their gas supplies most efficiently.

**CRYOGENIC LIQUID GAS MONITORING DEVICE**

For 30 years, AMBRA Sistemi S.R.L, Italy (AMBRA) has been a prominent cryogenic liquid gas monitoring business leader – Solution in use by AIR LIQUIDE, AIR PRODUCTS, MESSER, LINDE, PRAXAIR, SOL, and various other gas suppliers.

The solution integrates with a patented AMBRA device - A wireless and self-contained, compact telemetry remote monitoring device that tightly integrates a highly precise single unit dual sensor for pressure and level with electronics for output signal technology.

**REMOTE MONITORING**

GASOTRAK HOST is a cloud-based software solution that provides remote monitoring. Log on to the solution over the Internet and easily view data, adjust monitoring levels and designate recipients to receive alerts via email\SMS.

Device setup, installation, and configuration are easy, fast, and inexpensive. First, install the GSM SIM card on the device. Next, initiate a handshake with the GASOTRAK host, and then messages from the device are received on the host periodically using GPRS over 4G GSM networks.

**MONITOR MEANINGFUL DATA FREQUENTLY**

The monitor runs on battery-operated solar power and uses minimum power - pre-configured and fully assembled - easy to install, configure, and use.

The device is generally in sleep mode to conserve battery power and configure it to activate periodically in increments of 1-24 hours to update the device display and send monitoring and alarm data.

Set multiple monitor levels for tank level and low\high pressure levels. Configure the device locally or remotely. In addition, the device provides a low-temperature alarm for detecting line freeze.

**SPECIFICATIONS**

\*Custom device using AMBRA MiniCriotel 2/20 0001-20-111

**DEVICE PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS**

Electronic Enclosure	White aluminum enclosure for wall mounting, size 200 x 170 x 90 mm, waterproof degree IP 65, complete dimensions with solar panel 250 x 435 x 186 mm (Dust-tight and waterproof)
Weight:	3.5 Kg / 4.0 kg solar panel included
Display:	4 digits large LCD for level H18 mm 4 digits large LCD for pressure H18 mm Level to % conversation pushbutton 1st red led for unit fail 2nd yellow led for data communication
User Button:	Wake up push button on the front panel
Power Supply:	24 Vcc ± 5 % 0,35 A / Solar panel 100 mA @ max. solar exposition Backup battery: 3.7 V 3.6 Ah Li-ion
Operating Temperature:	- 20° C to 60° C
Pneumatic connections	1/8" G female with fitting adapters 1/4" NPT female or 1/4" G female

**DEVICE PERFORMANCE CHARACTERISTICS DRT TRANSDUCER**

Pressure and level (patented DRT Transducer)	<b>Relative pressure</b> Range: 0-20 bar (standard); 0-50 bar (optional) Resolution: 0.1 bar Combined error (0...50 °C): < ±1 % of F.S. Breaking overpressure: 35 bar (80 bar for range 0 - 50 bar) <b>Differential pressure (level):</b> Range: 0-2 bar Resolution: --- (programmable by user) Combined error (0...50 °C): < ± 2 % of F.S @ F.S. ≥150 mbar Differential overpressure: ± 4 bar limited by integrated protection devices
Reference Standards	2014/35/EU LVD, 2014/30/EU EMC, RoHS 2011/65/EU EN 61000-6-1, EN 61000-6-3 ISO 15001, BAM M 034-1

**DEVICE WARRANTY**

Materials & Labor:	12 months from date of shipment
General:	When operated under normal and proper conditions. When the product remains unmodified.

**DEVICE PERIPHERALS AND ACCESSORIES**

Solar Panel Power Supply:	Included 00-100 solar panel, stirrup for mounting, and cable for power supply 0.8 m
Direct Power Supply:	20051 AR24i: 230 Vac/ 24 Vcc – 1.2 A switching power supply, Isolation transformer 230Vac/230Vac, filters, PVC housing IP56 for wall mounting, size 190x140x70 mm
Extended Warranty:	Three years extended warranty available

**DATA COMMUNICATION**

Modem:	Integrated modem 4G with GPRS data communication
Technology:	GPRS communication over GSM network
Device Configuration:	SMS configuration message from the host
Data Transmission:	Every 1 to 24 hours Configurable in increments of 1 hour
GSM Network:	Customer to arrange for GSM service and Standard 2FF mini-SIM card

**REMOTE MONITORING SOFTWARE SERVICE**

Solution:	The web-based application offered as Software-as-a-Service over the cloud is accessible 24 x 7 using a web browser
Technology:	Flexible and modular architecture using latest technologies
Monitoring:	Install One device on each tank The device-generated data is sent over an integrated modem and collected using point to point data transmission over GSM network using GPRS\TCP IP
Alarms & Levels Reporting:	In Real-Time sent by SMS\Email to assigned persons
Administrator:	Customer designated administrator may provide user login rights to its one or multiple tanks Configure devices
User:	May view Tank data allowed by the customer administrator Tank Listing, Tank Status, Usage Trends, Alarms & Failures history Users may select an interface from multiple languages offered



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