

Cost-effectively manage cryogenic liquid gas tanks remotely over the Internet with wireless, compact, highly sensitive sensor, and solar powered to reduce installation time and cost - from 1 m3 to 60 m3 - Industrial and Medical gases - Oxygen, Nitrogen, Argon, Carbon Dioxide, and Nitrous Oxide



Measure actual use accurately

Predict expected tank level

Monitor tank pressure and level

Alerts & Notifications to manage unusual issues

Manage Assets for continuous availability

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

JUST IN TIME CRYOGENIC LIQUID GAS DELIVERY 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. The supplier is able to manage its production and use their logistical assets more efficiently and cost effectively. The user is able to reorder in a timely manner and manage their gas supplies in the most efficient way.

CRYOGENIC LIQUID GAS MONITORING DEVICE

For the last 25 years AMBRA Sistemi S.R.L, Italy (AMBRA) has been a prominent leader in the cryogenic liquid gas monitoring device field. Their solutions are used by AIR LIQUIDE, AIR PRODUCTS, MESSER, LINDE, PRAXAIR, SOL and various other gas suppliers. The monitoring device is wireless, compact, self-contained and tightly integrates AMBRA's highly precise single unit dual sensor for pressure and level with electronics for output signal technology and telemetry for remote monitoring.

REMOTE MONITORING

Device setup, installation and configuration are easy, fast, and inexpensive. The GSM SIM card needs to be installed in device. The initial handshake is done with the GASOTRAK host, and then messages from the device are received on the host on a periodic basis via GPRS over GSM network.

GASOTRAK HOST is a cloud based software solution that provides remote monitoring. Easily view data, adjust monitoring levels and designate recipients to receive alerts via email/SMS by logging into the system via internet.

MONITOR MEANINGFUL DATA FREQUENTLY

Set multiple monitor levels for tank level and low/high pressure levels. Device may be configured locally or remotely. The device provides low temperature alarm for detecting line freeze.

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

AMCT250* SPECIFICATIONS

*Custom device using AMBRA MiniCriotel 2/50 0001-20-111

DEVICE PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Enclosure & Dimensions:	White aluminum enclosure for wall mounting 200 x 170 x 90 mm / Additional for Solar panel or Direct power supply option
Weight:	4.500 Kg Additional 1.200 Kg for solar panel option Additional box for Direct power supply option
Display:	1 st LCD display for 4 digits for level 2 nd LCD display for 4 digits for pressure 1 st red led for unit fail 2 nd yellow led for data communication
User Button:	Wake up push button on front panel
Battery Pack Power:	Rechargeable 3.7 volt Lithium Ion 3600 mAh Maximum electric current 300 mA/h
Operating Temperature:	- 20° C to 60° C
Environmental Sealing:	Electronic Enclosure IP 65 (Dust tight and water proof)

DEVICE PERFORMANCE CHARACTERISTICS DRT TRANSDUCER

Relative Pressure Range	0-50 bar / Resolution 100 mbar
Full Scale:	
Combined Error (0 to 50°C):	Less than ±1 % of Full Scale
Breaking Overpressure:	Greater than 75 bar for Optional Range
Differential Pressure (level) Range:	0-2 bar / Resolution Less than ±1 % of Full Scale (F.S.)
Combined Error (0 to 50°C):	Less than ±2 % of Full Scale @ Greater than or equal to 150 mbar
Differential Overpressure:	±4 bar limited by integrated protection devices

DEVICE REGULATORY

General:	Approved for use as per European standards
Low Voltage:	DE 2006/95/EC
EM:	DE 2004/108/EC CE EN 61000-6-1, EN 61000-6-1

DEVICE WARRANTY

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

DEVICE PERIPHERALS AND ACCESSORIES

Solar Panel Power Supply:	PS024 Kit complete with 5 watt solar panel, stirrup for mounting, and cable for power supply 0.8 m (AMBRA 0001-00-100 Kit Solar Panel)
Direct Power Supply:	PDUNV 110 – 230 V AC 24 V DC; 1.2 A switching power supply PVC housing for wall mounting IP65
Pneumatic connection:	FNF25 1/4" NPT female FGF25 1/4" G female
Other Accessories:	FMNF3 3 way manifold
Extended Warranty:	WEXT3 3 year extended warranty available

DATA COMMUNICATION

Modem:	Integrated quad band modem 850/900/1800/1900 MHz
Technology:	GPRS communication over GSM network
Device Configuration:	SMS configuration message from 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:	Web based application offered as Software-as-a-Service over the cloud accessible 24 x 7 using web browser
Technology:	Flexible and modular architecture using latest technologies
Monitoring:	One device is installed on each tank Device generated data is sent over 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 customer administrator Tank Listing, Tank Status, Usage Trends, Alarms & Failures history User may select interface from multiple languages offered

*GASOTRAK AMCT250 = AMBRA Mini Criotel 2/50 0001-20-111



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For more information please visit www.trakaid.com/gasotrak