



The Lasso **Alpha** monitors and transmits data from a variety of operational standards sensors, including

- Pressure
- Temperature
- Level
- Chemical
- Generator
- Fuel Gauges
- Ultrasonic
- Engine Controls

Alpha communicates from the asset's location using Globalstar satellites, AT&T, Verizon, a combination of all three or local Wi-Fi hotspots. Sensor data is made available to customers through the Lasso Reporting Platform.

Typical Alpha field monitoring applications include:

<p>Tank Tank level, GPS, temperature monitoring using robust radar-based sensors</p>	<p>Engine Measures RPMs, odometer, MPH, oil PSI, oil life, coolant, fuel level %, battery voltage & engine faults.</p>	<p>Generator & Pumps Generator location, voltage, current pressure, cycles, run time. Remotely turn on-off.</p>	<p>Machine Monitoring Machine monitoring of Modbus 4-20mA, sensor, J1939 data: motor drive current, voltages, RPM, errors, tank process levels and flows, correlation graphs, reporting to tablet PCs over Wi-Fi.</p>	<p>International Shipping Refrigerated Container GPS and internal temperature of refrigerated shipping containers. Refrigerator status.</p>
<p>Lake Level/ Rainfall Measures water level, PH & salinity, rainfall, ORP oxidization reduction capability or ability for a lake to break down contaminates</p>	<p>Aquifer & Treated Water Quality Measures water level, PH & salinity, Total Dissolved Solids, chlorides and ORP</p>	<p>Water Treatment Measures flow rate, level, pump cycling, high level, run time.</p>	<p>Air Quality H2S gas detection, CO2, Methane, O2, LEL Explosive likelihood.</p>	

Lasso Reporting Platform

Lasso Technologies provides an easy-to-use data interface that gives you instant office or field access to all your globally distributed Alphas.

- Assign who can track your assets.
- Set up customized email and/or text alerts for movement or boundary violation.
- Select breadcrumb tracing by date range.
- Keypad and display allow parameters to be configured, sensors to be read and reporting times to be adjusted locally.
- Receive data and alerts via text, email or phone.



Local, regional, national or global – you'll know where your assets are located.





CERTIFICATION OPTIONS:

- Global (IECEEx) Gas and dust
- IECEEx BVS 11.0059X
- Ex db [ia Ga] [ib] IIC T4...T6 Gb
- Ex tb IIIC T80C...T130C Db IP66
- Europe (ATEX) Gas and dust
- BVS 11 ATEX E 114 X
- Ex II 2(1) G Ex db [ia Ga] [ib] IIC T4...T6 Gb
- Ex II2 D Ex tb IIIC T80C>>>T130C Db IP66
- IP 66 Waterproof enclosure

SPECIFICATIONS:

- Size: 4.7x4.3x4.3in (135x147x148mm)
- Communication: Globalstar Satellite, AT&T, Verizon, W-Fi.
- Main Control CPU: TIMSP430-4619 5Mhz
- Operating System: Salvo Multitasking, MSP430
- Inputs: Multiple Modbus 4-20mA, CAN Bus and digital inputs available
- Display & Keypad: OLED 2x16 character display [up, down, learn, reset, wake buttons]
- Battery: Solar with Rechargeable Batteries
- Battery Life: Up to 3 Years
- Low Power Mode: <.1ma when sleeping