



Solar Powered Wireless Environmental Monitors **Wireless Callout Systems**
Solar Powered Wireless Instrumentations **Off Setting Frac Monitoring Systems**
Solar Powered DC Power Towers **Solar Powered Light Towers**
Portable Wireless Security Systems



Solar Powered Light Towers

Introduction

Innovators in providing high performance, eco-friendly and cost-effective solar solutions, we are pleased to introduce the Solar Light Tower. The Solar Light Tower resembles a traditional portable diesel light tower but is powered by the sun.

Benefits

- Canada's first solar powered light tower
- Constructed in Canada for cold climates
- Completely self-powered unit
- Reduction of carbon footprint
- Eliminating such costs as fuel, oil changes and maintenance
- 358° Rotating Tower
- Wind rating 65 mph

Features

- Portable (Trailer or skid version)
- Robust
- LED fixtures c/w custom optics
- Photocell Control
- Built to API Q1 standards
- Complies with Canadian Electrical Code
- Fully Engineered (Lifting pockets, 4 point lift & tow hooks)
- Web enabled



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Battery Powered Light Tower

Introduction

The Battery Powered Light Tower is a light tower that runs on electricity and produces high intensity light while consuming very low amounts of electricity

The Battery Powered Light Tower is equipped with a battery bank, which will allow the unit to continue running even during a power outage.

Benefits

- Eliminating such costs as fuel, oil changes and maintenance
- Designed for dark climates with limited lighting
- Completely noise & emission free
- Reduction of carbon footprint
- No spilling of fuel
- 358° Rotating tower
- Great for hard to reach areas as fueling is not required

Features

- Portable
- Robust
- LED fixtures c/w custom optics
- Photocell Control
- Battery back up that will power the unit 6 - 8 hours
- Complies with Canadian Electrical Code



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Wireless Instrumentation

Introduction

The Wireless Instrumentation eliminates the cost of installing hard wired instruments in hard to reach locations or where no wires are available. The Wireless Instrumentation is a self contained, self-powered unit with a variety of wireless sensors and central base radios.

Benefits & Features

- Wireless, self-powered field units
- Up to 10 years on internal battery power (based on alarming)
- 900 MHz spread spectrum radio
- Up to 100 wireless field units per base radio
- Range: Up to 5000 ft/1500 m
- Field data at base radio Modbus or digital
- 12 different field units to choose from
- Easy to install
- Flexible setup
- CSA certified



Applications

- Level switches (flare knockout tanks)
- Temperature
- Well head pressure / gas leak
- PSV leaks
- Pipeline Pressure
- Turbine Meter Totalizer
- Steam leaks
- Tank levels

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Portable Wireless Security Systems

Wireless Security

Introduction

Wireless Security is a portable system designed for video monitoring & motion detection. The Wireless Security system is ideal for cost conscious clients who have a need to monitor remote locations to prevent theft, vandalism or for personal safety.

The motion detection feature will trigger an alarm that will then email a snapshot of the camera's current view. The user can then decide to view the live streaming video feed from any internet connection. The Logic programming can easily be set up to prevent nuisance alarms. Such logic is customizable but may include a control theory that will only allow alarming between 6 PM and 6 AM. Once motion is detected, alarms as well as the streaming video are historically time stamped and saved.

Benefits & Features

- Wireless surveillance
- Remote applications
- Web enabled
- Will site security
- Security issues for end users



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Wellbore Monitor

Introduction

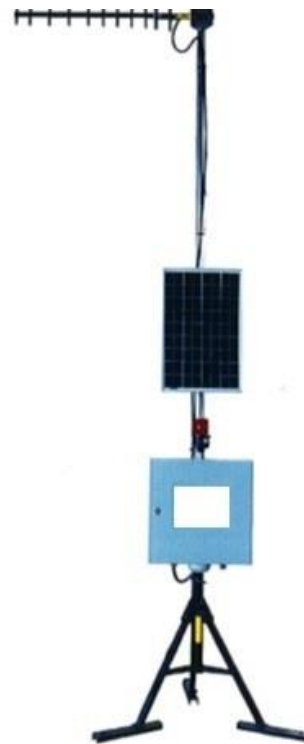
The proprietary monitoring system to protect the integrity of existing wellbores and production equipment by introducing *Surefrac*. *Surefrac* is installed on existing well heads in close proximity to the fracturing operations and detects any changes in pressures based on baseline data collected for each well; this information is then communicated between the wellbore being monitored and the fracturing operation.

Benefits & Features

- Cellular communications to transmit information
- Time intervals can be selected for pressure data updates
- All information is data logged and will be available
- Communications through an audible/visual alert on site or remotely
- Multiple sensor configuration per system
- This live information will be available 24 hrs

Intellisite Ready

- Industry leading web-based remote monitoring service
- Collects critical remote site data
- Converts instrument data into useable information
- Efficiently and economically manages data



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Wireless Callout System

Introduction

The Wireless Callout System communicates with an operator via land line, cellular or radio, to indicate when an alarm threshold has been reached on location. The Wireless Callout System will generate a call to all pre-programmed numbers supplied by the operator, to notify that an occurrence has taken place and will give details of the situation. This state of the art system has been designed to run either AC or solar power for remote sites

Benefits & Features

- Easy menu programming
- 4 – Binary inputs (standard)
- Expandable to 16 Binary inputs, 13 analog inputs
- Self powered (five year life with Lithium power pack)
- Options for external power 12 Vdc solar

Eight Input Channels/Vibration Detection

- 4 – analog inputs or 4 – Modbus registers, 4 – discrete inputs (dry contact)
- Vibration detection, monitor on/off status (magnetically attaches to equipment)

Multiple Alarm Option

- User selectable “High & Low” alarms on analog or Modbus channels
- 4 discrete channels – normally open or normally closed
- 4 timers – set to transmit by minute, hourly, daily or monthly

Intellisite Ready

- Industry leading web-based remote monitoring system
- Collects critical remote site data
- Converts instrument data into useable information



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Wireless Environmental Monitor

Introduction

The Wireless Environmental Monitor is an industry leading satellite communication system designed to detect changes in ambient environmental conditions. The system can accept multiple environmental sensors (i.e. toxic gases, wind speed, wind direction, particulates, noise monitoring, and water quality)

Benefit & Feature

- Solar powers wireless environmental monitor
- Detects change in ambient environmental conditions
- Various sensors (H₂S, SO₂, LEL, Nox, VOC, etc...)
- Visual anemometer (wind speed / wind direction sensor)
- Compact size

Multiple Alarm Options

- User selectable “High & Low” alarms
- 4 Timers set to transmit by minute, hourly, daily or monthly

Intellisite Ready

- Industry leading web-based remote monitoring service
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