

Safety & Telecommunication



JELEC

INNOVATION AND TECHNOLOGY
DRIVING SIMPLICITY AND EFFICIENCY

Communication & CCTV

Communication System

Jelec delivers a unified communication package tailored-made for land rigs applications. The package has been designed for simplicity of operation and reduced equipment footprint.

Our know-how and long experience on the supply / installation and commissioning of such systems for any type of drilling rigs will help you specify the best devices and determine their locations to achieve the best coverage at a reasonable cost while meeting any operational requirements.



Our off-the-shelves telecommunication solution is modular and may include the following equipment :

- Rig side and rig camp telephones
- Wireless Phones (for increased mobility)
- Audible and Visual Alarm Station Assemblies
- Driller / Drill Floor / Racking Board intercom stations
- Rig Camp computer network

Some optional features of our offering include :

- Outbound Call Interface (Satellite / LTE)
- Rig alarms over text messages (for wireless phones)
- User Specified rig alarm tones
- Hands free accessories
- Integration with customer supplied / specified equipment
- Board level equipment for integration into your own control station (i.e. driller's chair)

CCTV System

The Jelec CCTV System is based on next generation HD (High-Definition) camera solutions.

The IP backbone of the system relies on a high-speed independent fiber-optic Ethernet network, eliminating long composite cable runs and making the system easily expandable.

IP based, legacy analog or hybrid/combination systems are available to suit your requirements.

Camera stations are available in many different configurations including: explosion proof, dome, PTZ, fixed, weatherproof and indoor.

The Jelec CCTV Software is fully developed in-house, tailored for a drilling rig operating environment and customizable on request.



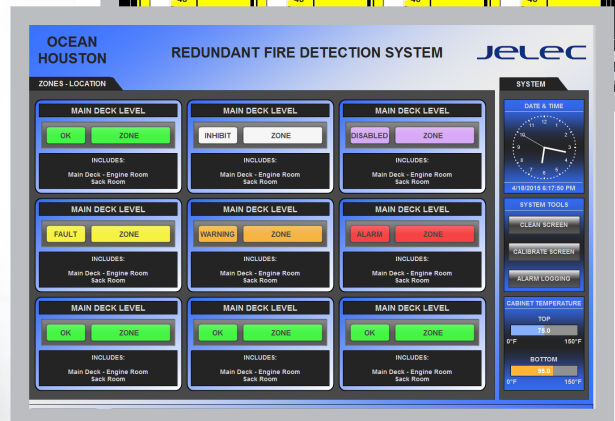
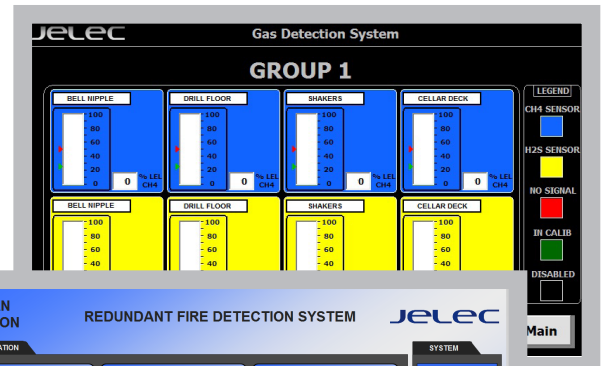
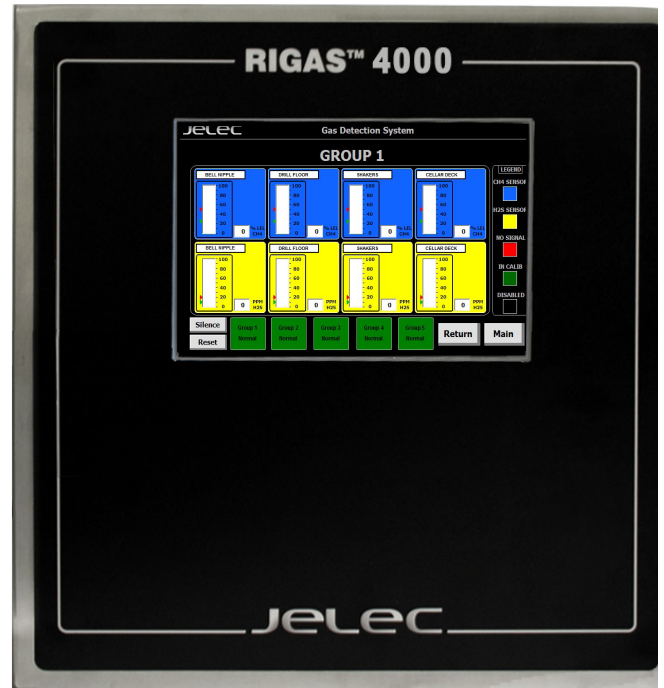
Fire & Gas

Fire & Gas Detection

Jelec RIGAS is a rugged versatile fire and ambient gas detection control system that is easy to configure and use. The RIGAS can supervise up to 40 channels of active fire and gas detection via 4-20mA analog inputs and digital inputs and is completely field configurable via the panel 9" color touch screen. A serial or Modbus TCP/IP is also available for communication with Modbus detectors and mud total gas analyzers. The controller is based on an open system and can be interfaced with a wide range of fire and gas detectors from many different manufacturers.

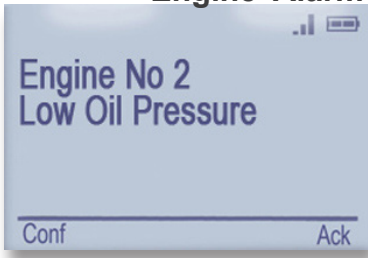
Features and Benefits

- Supports up to 40 input channels (4-20mA and digital inputs)
- Compatible with all 4-20ma gas detectors
- Wireless option for field fire and gas detectors
- Modbus input for Mud Total Gas Analyzers
- 8 configurable outputs or audible and visual alarms
- WITSML / WITS output for external system interfaces
- Extra-large 9" color touch screen
- Intuitive and easy configuration via touch screen
- Exportable event log
- Easy installation and rig up
- Proven rig tough reliability

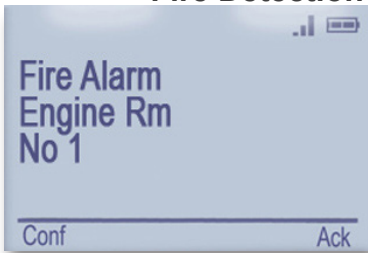


Emergency Response

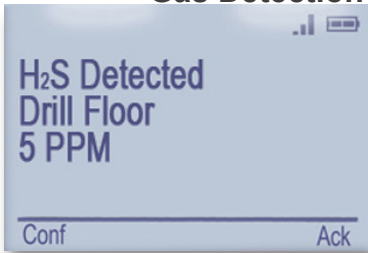
Engine Alarm



Fire Detection



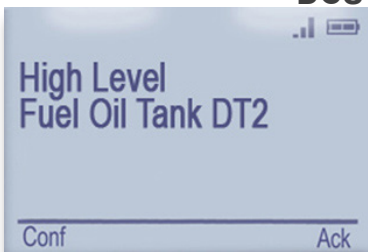
Gas Detection



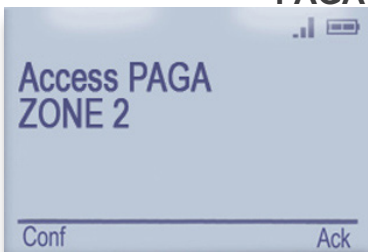
Man Down Alarm



DCS



PAGA



Jelec Wireless phone can be used for a time sensitive response to any emergency situation. With the ability to integrate with facility safety and alarm systems via advanced text messaging and incorporate a “Man Down” safety monitoring system, this solution provides highly technical risk mitigation in times of an emergency.

This solution can be interfaced with your automation and safety systems to enable monitoring as well as provide notification of alarms and operational information.

Typical Interfaced systems are:

- Generator Set Monitoring
- Gas Detection
- Fire Detection
- PAGA
- Drilling Control & Instrumentation System

Rig personal in need of real time information will be able to respond quickly to the exact location of the emergency, be it a fire team, spill containment team, medical team or maintenance team.

Communication from any location at the rig site improved team based work with a remote location. It is now possible to keep an eye on the present task or issue while communicating with colleagues/co-workers located on site or at a remote location.

“Man Down” is a critical function for the safety of a worker who has been injured at the facility. The «Man Down» function on every handset enables the injured personnel to be found quickly while connecting his or her handset directly to the 24/7 main control station for emergency response.

Features and Benefits

- Integration with critical safety systems
- Integration with monitoring systems
- Advanced text messaging for alarms
- Increased safety during operations
- Man Down Alarm
- Time Sensitive Response
- Risk Mitigation



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