Natural Gas Compressor Application

iSCADA® DataAlert™ provides a world-class turnkey remote monitoring and alarming service for natural gas compressors. DataAlert includes 24x7 Network Operating Center support, which provides remote system monitoring and customer support. DataAlert service includes:

SCADA Functionality

Data acquisition, monitoring, reporting, alarming, and trending.

Web Browser Access

Universal Internet access to remote operations with intuitive interface, familiar navigation, and no client hardware or software requirement.

Field and Server Systems

Data presentation application, robust servers, all field equipment (serial connections to existing panels, additional analog & digital I/O, satellite communications, etc.) and connection infrastructure.

Protocol Support

DataAlert service includes the D+ satellite communications unit, which supports MODBUS communications.

Communications

Communications expertise and partnerships that provide economical and best-of-class options for appropriate communications links, including spread spectrum, licensed radios, satellite, and terrestrial communications.

Turnkey Infrastructure

Comprehensive network infrastructure that ensures data integrity, availability and security, and M2M's network operations center provides complete management of the facilities that transport the data payload.

High Security

Defense-in-depth security including strong encryption of data and communications, multi-factor authentication, IDS, firewalls, hardened OS and system architecture, and stringent security policies and procedures.

DataAlert Service Details

Data Acquisition

DataAlert battery voltage

Standard service includes monitoring of 4 registers from a control panel

▸ 40,004 - Fault Code
▸ 40,020 - Ignition Voltage – vdc x 10
▸ 40,002 - Hour Meter - hours
▸ 40,001 - Engine RPM - rpm

Standard field I/O configuration:

▸ One (1) serial port interface to compressor control panel (RS232 & RS485 supported)
▸ Analog inputs (4-20mA)
  • Suction Pressure
  • Discharge Pressure
  • Compressor vibration

Data Reporting

▸ 30 daily reports per month plus alarms reported on a report-by-exception (RBE) basis with a scan rate of four times per minute. RBE occurs based on a switch (e.g. pressure) change of state.

Functionality

▸ On boot-up, unit posts GPS location
▸ Daily health check reports MODBUS registers as well as the 4-20mA inputs
▸ Terminal scans analog inputs every 15 sec.
▸ Terminal supplies 2.5 V wetting voltage to dry contact that opens when unit is down
▸ When contact changes state, the MODBUS registers & analog inputs are read & reported
▸ Service includes DataAlert battery voltage alarm

DataAlert Features

▸ Rental option available (no capital expense)
▸ Risk-free 30 day trial
▸ Proven, robust and reliable service
▸ 99.7% availability guaranteed by Service Level Agreement
▸ Automated reporting
▸ Demand poll
▸ Simple installation
▸ 24 x 7 M2M Network Operating Center support
▸ Integrates with M2M's standard iSCADA® service
  • Standard service includes monitoring of up to 10 variables

Options

▸ Solar power

Other AlertServices™ Products

▸ StatusAlert™
▸ CompressorAlert™
▸ FlowAlert™
▸ LevelAlert™