More than 70 years ago, our products started with a simple idea – identify an unmet need in the industry and provide a reliable solution. Since then, our products have led the way in engine monitoring and protection solutions for oil and gas applications, including field gas gathering and gas transmission.

Our ever-expanding product breadth includes sophisticated engine control and monitoring systems, electronic and mechanical controls, custom engineered control panels and systems, intelligent ignition control systems and air-fuel ratio controllers.

When it comes to equipment monitoring and control – trust our experts.

We Are Innovators.

The tradition of innovation continues as we partner with customers to truly understand application needs and provide solutions focused around easy integration into complete systems. The integrated approach to equipment and engine management provides customers with advanced functionality, optimized performance and the reliability they have come to expect from Murphy products.

We Are Customer Driven.

Our solutions-based approach allows us to be your single source for all your equipment monitoring and control needs. We work directly with our customers to identify the exact applications requirements and develop a complete system that is tailored to their needs. No more spec’ing out parts – let us do the work for you.

We Are Global.

We are where our customers are. Our North American operations are centrally located in Tulsa, Oklahoma, with additional offices in San Antonio and Rosenberg, Texas. Our international manufacturing operations are located in Europe and China, with sales offices in India, South Korea and Latin America. Customer support is achieved through our extensive distributor and dealer networks available throughout the world.
CONTROLS & INSTRUMENTATION

We offer a wide range of instrumentation designed to monitor and control various aspects of compressors, pumps, generators and more. From pressure and temperature gages, fluid level maintainers, switches for vibration, time and overspeed to annunciators and magnetic switches, controllers, fuel and scrubber dump valves, we package solutions to fit your particular application needs.

For maximum integration, multiple products can be combined to create a complete solution to provide optimum performance and advanced functionality.

Shock and Vibration Switches
Shock and Vibration Switches detect abnormal shock or excessive vibration due to equipment failure and provide automatic shutdown to prevent further damage. Connect the switches to the TTO, Centurion or Centurion PLUS controllers for increased monitoring capabilities.

Fuel Shutoff Valve
Fuel Shutoff Valves provide semiautomatic shutdown of natural gas fueled engines by opening manually and closing when the electromagnet is energized and trips the latch.

Level Devices
Level devices help protect your engine-driven applications by providing an easy visual indication of low/high oil level, lubricant and coolant level. Visual indication allows operators to check engine fluid levels without shutting down the engine.

Control and Monitoring Systems
Murphy's Control Systems monitor pressure, temperature, liquid level, overspeed, time and vibration. Multiple controller options are available, from simple start and stop controllers to sophisticated automation systems.

EMISSIONS OPTIMIZED

The available emissions package gives you the confidence you need to know that your equipment will remain in compliance and pass required testing. And because the entire system was designed to work together, you save time and money associated with pretesting and site visits.

Diagnostics Simplified
EICS communicates with all the key components to quickly and accurately identify the original cause of malfunction. Monitor vital engine information, like air/fuel control, ignition, sensors, emissions and more on the easy-to-read LCD display.

Fuel Savings
In addition to these other benefits, utilizing EICS can impact your bottom line. This system makes fuel go farther saving you money. Customers in some applications have reported savings of 20 percent to 30 percent in fuel and operating costs when moving to EICS.

ENGINE INTEGRATED CONTROL SYSTEM

Engine Life Extended
The turnkey engine integration package allows you to quickly and easily bring your outdated engine up to speed. Get all the major components – ignition, air/fuel control and speed governing – in one complete package, precalibrated and dyno-tested for your convenience.

Emissions Optimized
The available emissions package gives you the confidence you need to know that your equipment will remain in compliance and pass required testing. And because the entire system was designed to work together, you save time and money associated with pretesting and site visits.

Diagnostics Simplified
EICS communicates with all the key components to quickly and accurately identify the original cause of malfunction. Monitor vital engine information, like air/fuel control, ignition, sensors, emissions and more on the easy-to-read LCD display.

Fuel Savings
In addition to these other benefits, utilizing EICS can impact your bottom line. This system makes fuel go farther saving you money. Customers in some applications have reported savings of 20 percent to 30 percent in fuel and operating costs when moving to EICS.
ENGINE INTEGRATED CONTROL SYSTEM

Controller with M-View
Bright Backlighted Display

Applications Key* Option
(within the subpanel)

Color Display for Operation,
Status and Diagnostics

Air / Fuel Management
EPR Electronic Pressure
Regulator

Engine Control Module (ECM)

Air / Fuel
Management Mixer

Integrates Catalyst

Electronic Governing/
Suction Pressure Based
Speed Control

Smart Coils

Air/Fuel Management

Integrated Catalyst /
Sensor Package

Applications Key* (Optional)

- Emissions Key
- Suction Control Key

* Standard EICS Performance Package
does not include Applications Key.
2. Power Distribution Module

Bright Backlighted Controller/Monitor Color Display for Operation, Status and Diagnostics

Emissions Control Ignition Control

PXT-K Pressure Sensors

CONTROLS & INSTRUMENTATION

Vibration/Shock Switches (not pictured)

PSB/TSB Pressure/Temperature Switches

Thermocouples

EL150 Coolant Level Switch

LM500 Low Oil Level Switch

Bright Backlighted Controller/Monitor

Color Display for Operation, Status and Diagnostics

Scrubber Liquid Level

Pressure / Temperature Switches

Pressure Sensors

Low Oil Level Switches

Vibration / Shock Switches

Liquid Level Switches

J/K Thermocouples
The Control Systems & Services division has the expertise to provide the best solution for any control need. We work with clients to quickly identify critical needs and cost-effective solutions in a wide variety of control system applications, from basic annunciator shutdown panels to complex PLC-based systems.

Let Control Systems & Services take your project from concept to completion. We offer project management, design and engineering, programming, testing, training and 24-hour technical support.

**LEVEL 1**
- Simple, Easy-to-Operate Interface
- Monitors 48 User-Configurable Sensors
- Pre/Post Lube Functionality and No Flow Detection

**LEVEL 2**
- Hybrid Annunciator and Compressor Controller
- Monitoring and Shutdown Features
- Auto-Start and Basic Engine Controls Help Prevent Shutdowns
- PC Configurable/USB Compatible
- No Programming Experience Required

**LEVEL 3**
- Custom Programmed to Meet Exact Requirements
- Complex Valve Logic and Sequencing Support
- Real-Time Data Via Two Rs485/Rs232 Ports
- Expandable I/O up to Three Expansion Modules
- Capable Of Complex Calculations, including Rod Load and Temperature Deviation
We understand that some applications require complex control of sophisticated systems. That’s why we created a full line of ignition and air-fuel ratio controllers for natural gas-powered engines.

Achieving compliance is a breeze with Murphy’s air-fuel ratio controllers. The complete line of controllers – AFR-1R, AFR-9R, AFR-64R, AFR-64L and AFR-FI – provide customers with continuous compliance, lower fuel and maintenance costs, troubleshooting and diagnostics with automatic shutdowns. With Murphy’s air-fuel controls your equipment will meet emissions regulations now and in the future.

Ensure the health of your spark-ignited natural gas engine with Murphy’s IntelliSpark™ ignition controller and components. True primary and secondary diagnostics provide users with an intelligent view of engine operation, while increased programming capabilities give you ultimate control. The IntelliSpark systems feature microprocessor, capacitive discharge functionality for any application that requires a cost-effective or emission-controlled operation.
OUR COMMITMENT TO YOU

Our company is more than just a supplier of products. We work closely with our customers to design and deliver innovative and reliable products for specific applications. Our goal is not just to meet, but exceed customer expectations in order to become the preferred partner.

IN-HOUSE MANUFACTURING

We take pride in our world-class manufacturing, which allows us to perform specialized manufacturing processes and provide customers with more reliable products. We have integrated a standard operating system, which utilizes intelligent approaches like lean manufacturing and Six Sigma, for maximum productivity.

CUSTOMER-FOCUSED SUPPORT

We understand the importance of creating sustainable partnerships with our customers. To accomplish that, we provide support before, during and after the initial sale. From engineering support to troubleshooting assistance, we are with you every step of the way.

GLOBAL SERVICE AND SUPPORT:

- 24-Hour Technical Support
- Global Field Service
- Skilled Engineering Team
- 24-Hour Technical Support
- Startup/Commissioning, Training and Troubleshooting Assistance
In order to bring you the highest quality, full-featured products, we reserve the right to change our specifications and designs at any time.

Specifications and performance data are subject to change without notice.

Certified specifications and performance data are available upon request.

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