











## **MURPHY** PRODUCTS

FW Murphy offers hundreds of products to monitor and control critical functions of your engines and engine-driven equipment. We have J1939/CAN displays and instrumentation, compressor controls, engine controls, custom panels, auto start/stop controllers, sensors and more.

We provide reliable, innovative products focused on meeting customer needs and have been doing so for over 70 years. Browse some of our most popular product offerings, as well as several new additions to the Murphy product lineup.

# Murphy Serves You Around



# The World



Our Success Is Measured By The Success of Our Relationship With You.

MURPH



## INDEX

INTRODUCTION	
LOCATIONS	4 - 5
INDEX	
GAGES	
DISPLAYS	
ENGINE CONTROLS	
PANELS AND SYSTEMS	
COMPRESSOR CONTROLS	
PROCESS MONITORING INSTRUMENTS	
CONTACT INFORMATION	28



Murphy is known for its gages, and there's a good reason why. They're durable and dependable. They're highly accurate and long-lasting. We didn't make them so popular – our customers did. We just make them solid and reliable every time.

## Mechanical Pressure Swichgage® and Murphygage® Instruments

(Catalog Section 05)

#### Featured Product: 20P Gage

- Classic Swichgage design
- Combination indicating pressure gage and limit switch
- Pressure limit switch visible and adjustable
- Switch can activate alarms and/or shutdown equipment
- Exceeds SAE Standards



#### Most of these products have standard normally open switch outputs.

	pressure	differential pressure	vacuum	hazardous rated*		2.5" 64mm	4.5" 114mm	NO/NC systems*	diaphragm (90° sweep)	bourdon tube (270° sweep)
20P/25P	•				•	•		•	•	
A20P/A25P	•			•	•	•		•	•	
20V/A20V/25V/A25V			•		•	•			•	
20DP/A20DP/ 25DP/A25DP		•			•	•		•	•	
20VWC/25VWC/A25VWC			•		•	•			•	
	•				•				•	
OPL-series	•		•	•			•			•
OPL-BP-series	•		•	•			•			•
45APE	•		•	•			•	•		•
PT167EX	•			•			•			•

\*Specific models only

\*\*No contacts



Mechanical Temperature Swichgage® and Gage Instruments (Catalog Section 10)

#### Featured Product: A20T gage

- Corrosion-resistant polycarbonate case
- Indicating temperature gage and limit switch
- Switch can activate alarms and/or shutdown equipment
- Contact(s) isolated from ground
- Standard normally open switch outputs

	metal case	polycarbo- nate case	direct mount	2" 51mm	2.5" 64mm	4.5" 114mm	hazardous rated*	NO/NC systems*	diaphragm (90° sweep)	bourdon tube (270° sweep)	bimetal
20T/25T	•			•	•			•	•		
A20T/A25T		•		•	•		•	•	•		
SPL-series	•					•	•			•	
20BTG**	•			•					•		
45TE-series	•					٠	•	•		•	
SDB-series	•		٠				•				•

\*Specific models only

\*\*No contacts



## Electric Swichgage® and Gage Instruments and Senders

(Catalog Section 70)

#### Featured Product: EGS21P Electric Swichgage

- EG Air Core movement design
- Rugged design exceeds SAE J1810 standards
- Adjustable set point
- Solid-state switch output



Other EG Products:

• CANdrive<sup>™</sup> – J1939 to electric gage convertor

	gage	sender	pressure	temperature	fuel level	voltage and current	switching	weather sealed
EG21-series	•		•	•	•	•		•
EGS21-series	•		•	•	٠	•	•	•
ESP-series		•	•					n/a
EST-series		•		•				n/a
ESF-series		•			•			n⁄a

## GAGES continued

### **Hourmeters and Tachometers**

(Catalog Section 20)



#### Featured Product: ATH Tachometer/Hourmeter

- Sensing from magnetic sensor signal or battery charging alternator
- High visibility analog readout
- 12/24 VDC
- Easy calibration
- Through-dial lighting

	tachometer	hourmeter	digital	analog	mag pickup	alternator	battery voltage ignition	electro- mechanical	backlight
MT90	•		•		•	•			•
MTH6	•	•	٠		•	•			•
TM-series		•	٠					•	
AT-series	•	٠		•	•	•	•		•

# PowerView<sup>™</sup> Analog Gages (Catalog Section 78)

DISPLAYS

Featured Product: MurphyLink™ CAN-Direct Gage PVCAN2O-B Temperature Gage

• Displays J1939 parameters in an analog gage

GAGES continued

- Designed as a CAN-Direct gage without the need for a driving device
- Smooth needle movement
- 270° sweep pointer
- Wide selection of lens and bezel styles and colors
- Adjustable LED backlighting



Common parameters include: pressure, temperature, time, speed, volts, fuel.

	Power Supply input voltage	2" 51mm	3.5" 89mm	Displays J1939 Data	Driven by PV101	RS485	J1939	Audible alarm
PVCAN gage	8 - 32	•	•	•			•	
PVA gage	6 - 32	•	•	•	•	•		
PVAA alarm	8 - 32	•			•	•		•
PVM gage	5	•	•	•	•	•		



### J1939/CAN PowerView<sup>™</sup> Displays

(Catalog Section 78)

PV10 Display

- Displays SAE J1939
- Standard and proprietary diagnostic codes
- Hourmeter and tachometer
- Compact, 2 inch dia. dial face



#### Other J1939 Products:

- XM500 CAN I/O Module
- CANdrive Interface to Drive Electric Gages
- SenderCAN Analog Inputs to CAN
- FuelCAN Fuel Sender to CAN
- MeCAN Magnetic Pickup (MPU) and Analog Inputs to CAN

Murphy is an expert in instrumentation and controls for electronic engines. We've cracked the code of the modern ECU to give operators a clear view of what their engines are doing at any time. Our displays use cutting-edge technology, without sacrificing durability.

### J1939/CAN PowerView<sup>™</sup> Displays

DISPLAYS

(Catalog Section 78)



#### PV450 Display (shown at far left)

- Similar to PV750 but more compact in size
- Full-color WQVGA 4.3" screen

	Power Supply	Display	CAN ports	Optional GPS display	Optional video	screen size (diagonal)
PV101	12/24	Monochrome LCD	1			2.8" (71mm)
PV450	12/24	Color WQVGA	2		٠	4.3"(109mm)
PV750	12/24	Color WVGA	3	•	•	7" (177mm)



#### Featured Product: PV101 Display

- Displays SAE J1939 standard and proprietary messages
- Customizable screens and multiple language capabilities
- Display viewing temperature -20 to 185°F (-29 to 85°C)
- Displays SAE J1939 diagnostic trouble codes with text translations for diagnosing most common equipment malfunctions
- Tier 4/Euro Stage IIIB compliant
- Software configuration tool available



## ENGINE CONTROLS

### **Murphy Power Ignition**

(Catalog Section 50)

#### Featured Product: MPI-16D Controller

- Crankshaft-referenced microprocessor-based system
- True primary and secondary diagnostics
- Five timing reference options, including camless operation
- 16-bit microprocessor controller
- Field-programmable front panel display



#### **Other MPI Products:**

- Brushless Alternators CSA, Cl. 1. Div. 2
- Detonation Sensing Module/System
- Coils, Shielded and Unshielded
- Replacement parts for Altronic\* III and Altronic\* V Ignition Systems

	Outputs	Energy Storage	Simultaneous Pairing	Crankshaft Referenced	Remote Comm. Port	CSA Certified for Cl. 1, Div. 2 Gps. B, C, D
MPI- 8	8	125 mJ		•	•	•
MPI - 16	16	125 mJ		•	•	•
MPI - 32	32	180 mJ	•	•	•	•
MPI - 601	1	250 mJ		•		

<sup>\*</sup> Altronic is a registered trademark.

## ENGINE CONTROLS



### **Compliance Controls**

(Catalog Section 50)

#### Featured Product: AFR-9R Multipoint Air/Fuel Ratio Controller

- Simplest multi-setpoint, load following controller on the market
- Configuration via menu driven HMI/display (no laptop required)
- 9 air/fuel targets for 9 load levels
- Pre and Post catalyst oxygen sensor feedback
- Feedforward control + superfast in-line fuel valve = rapid response to loads
- Streamlined menu-driven navigation
- On-screen help and setup tips

	Engine Type	Number of Setpoints	Configurable by	Post-catalyst Sensor Input Option		Manifold Temperature Sensor Input	Diagnostic Plotting & Logging	Closed-loop Oxygen Sensor Feedback Control	Open-loop Feed Forward Control
AFR-1R	Carburetor Rich Burn	1	Keypad	•				•	
AFR-9R	Carburetor Rich Burn	9	Keypad	•	•			•	•
AFR-64L	Carburetor Lean Burn	64	Laptop		•	•	•	•	•
AFR-64R	Carburetor Rich Burn	64	Laptop	•	•		•	•	•
AFR-FI	Fuel-Injected	20	Keypad		Air & Fuel	Thermocouple or RTDT	SCADA Ready		

Available in integrated panel systems from Control Systems & Services (See pages 20 - 21)

## ENGINE CONTROLS

## Engine Controllers (Catalog Section 40)

Featured Product: EMS PRO Engine Monitoring System Controller

- Automatic start and stop control with backlit graphical display
- One panel compatible for both mechanical and J1939 electronic engines
- Modbus® RTU internet ready all within a NEMA 4 enclosure
- Interim Tier 4 compliant

	autostart/ stop	digital	display	LED indicator	mechanical engines support	electronic engines support (J1939)	configurable
EMS-series	•	•	•	•	•	•	•
eGuard	٠	•	•		•	•	•
Cascade CD101	•	•		•	•	•	•
ASM-series	•	•		•	•		
A91	•	•		•	•		



0000

Additional options are available. Call Murphy for advice on your specific applications.

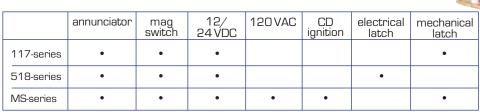
#### **Other Engine Controls:**

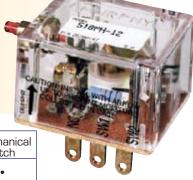
- Keystart manual start/stop and automatic fault protection on mechanical engines
- CANstart start/stop and automatic fault protection on J1939 engines, drives electric gages

## Tattletale® Annunciators and Magnetic Switch Relays (Catalog Section 25)

#### Featured Product: Tattletale Annunciators

- Translates Swichgage contact operations into decisions to operate alarms
  or shutdown devices
- Shows which monitored function caused an alarm or shutdown
- Weather resistant case





Sometimes you need more than engine data. You need action too. Our engine controls are the best match for Murphy Instrumentation. You can add autostart, shutdown, alarm and more.

## ENGINE CONTROLS



### **Electro-Mechanical Controls**

(Catalog Section 40)

Featured Product: RP75 Rack Puller for Diesel Engines

- Pulls injection pump or air intake shut-off lever
- 30 lbf operating force
- Available for 12- or 24-volt systems
- Operates on signal from Swichgage instruments via Tattletale®
  Annunciator or Magnetic Switch relay

	throttle	clutch	rack puller	ETR	ETS	omni- voltage	12 VDC	24 VDC
AT03069	•					•		
CO3		•					٠	•
RP75			•		•		•	•
RP2307-RP2310				•	•		•	•



## Battery Chargers (Catalog Section 75)

#### Featured Product: Sentinel 300P and Sentinel 150 Battery Charger

- Automatic float and boost charging
- Temperature compensated charge output
- Option for analog metering, backlit display, control/alarm I/O and RS485/CAN J1939 datacomms
- Standards compliance: UL 1236, CSA, CE, NFPA 110\*

(\* selected models only)

	float charging	auto boost	temperature compensation	maximum current ADC	nominal voltage VDC	charge fall relay output
Sentry	•	•	•	5A at 12v	12	•
Guardian	•	•	•	10A @ 12/24VDC 20A @ 24 VDC	12/24	•
Sentinel 150	•	٠	٠	5A @ 12/24VDC 10A @ 12 VDC	12/24	•
Sentinel 300P	•	٠	•	10A @ 12/24VDC	12/24	•

Murphy has spent years cultivating its expertise in electronic engines and ECUs. Now we're delivering our knowledge directly to you. We have a staff of application engineers dedicated to building just the right panel for your application. From custom programming and configuration to equipment dashes and custom displays – if you can imagine it, we can build it.

## Panel Systems for Electronically-Controlled Engines (Catalog Section 30)

Featured Product: M-Series MurphyLink<sup>™</sup> Panels

- Standard panels for many modern electronic engines
- Combines analog gages with the PowerView PV101 display
- Standard wiring harnesses available for most manufacturer's ECUs
- Deutsch connectors for easy installation
- Optional controllers available for engine automation





#### Panels for Pump Control / Power Units

	mechanical engines	electronic engines	digital display	analog gages	autostart	I/O
M120-series		•	PV101			
M320-series		•	PV101	PVA		
M520-series	•	•			Cascade	4/4
M620-series	•	•		PVA	Cascade	4/4



## Panel Systems for Mechanically-Controlled Engines (Catalog Section 30)

#### Featured Product: MC100 Panel

- Configurable panel standard panel sizes that can be configured with multiple options
- Choose your gages, starting method, tachometer, mounting options – even add a hinged door or hinged faceplate
- Customize your panel online and get it shipped without delay

	Applications
MC100	Online Quote/Spec Capability - General Shutdown
75160/WHB	Shutdown for Irrigation Apps
EA150	Basic Micro Controller
WD300	Includes SV Series Fuel Shut-off valve
WDU-277	Deutz 413, 511, 912 and 913 Engines



## Panel Systems for Generator Sets

(Catalog Section 75)

#### Featured Product: MGC150 Panel

- Cascade/iGuard controller options
- Provision for optional PVA gages or PowerView
- Quick disconnect and standard MEH harness available

	mechanical engines	electronic engines	metering (volts amps hertz)	digital display	analog gages	autostart	applications
MGC25	•	•	•				Power Gen Meter only
MGC50	•		•				Power Gen with Keyswitch
MGC100	•	•	•		Electric gages	•	Power Gen Cascade
MGC150	•	•	•	PV101		•	Power Gen Cascade

Murphy's Control Systems and Services offers a full line of control panels. We offer controls and interfaces for a wide range of applications — from engines and motors, to pumps and compressors. We start with a basic platform, then add your custom design. Instrumentation, layout, software — you get it exactly how you want it. It's the total Murphy treatment reliable control backed by full customer service.

## Panel Systems for Equipment Monitoring

and Protection (Catalog Section 50)

#### Basic Shutdown Panel Featuring The TTD™ Annunciator

- Fully-configurable fault annunciator
- Includes alarm and shutdown control

	communications	I/O	configurable I/O	non-incendive inputs	,	area classification
TTD	RS232/RS485*		48/4 NO/NC	٠		CSA cl. l, div. 2 grps. B, C, D
LCDT		47/3 NO/NC		•	•	CSA cl. l, div. 1 group D

\* Communication ports utilized for operation visibility

## Panel Systems for Wellhead Compression Control (Catalog Section 50)

#### Basic Autostart Control Panel Featuring The WellPro™ Controller

- OEM programmable control system
- Includes alarm and shutdown control

	communications	configurable I/O	non-incendive inputs		area classification
WellPro	RS485, USB*	17/8 NO/NC	•	•**	CSA cl. I, div. 2 grps. B, C, D

\*Communication ports utilized for operation visibility and control.

\* \* Available with use of external barriers.

Control Systems and Services features weather-proof enclosures with safety glass windows painted to specifications or stainless steel, vibration/shock mounted subpanel inserts and temperature-controlled solutions when required.

UL and/or CSA approvals for control panels available. Additional area approvals available. CS&S is a certified UL and CSA manufacturing facility.





### Configurable Panel System for Equipment Monitoring and Protection with Available Autostart and Process Control (Catalog Section 50)

#### Basic Shutdown/Autostart Panel Featuring The Centurion<sup>™</sup> Controller

- A hybrid of annunciator and compressor controller
- Combines the monitoring and shutdown features of an annunciator, with autostart and basic engine controls that help prevent shutdown

	communications	I/O	expansion I/O	non-incendive inputs	intrinsically safe inputs	area classification
Centurion	RS232/RS485 USB*	53/12 NO/NC	user defined**	•	●* * *	CSA cl. l, div. 2 grps. B, C, D
S1501	RS232/RS485	64/7 NO/NC		٠	•	CSA cl. l, div. 1 grps. C & D

 $^{\ast}\ensuremath{\operatorname{Communication}}$  ports utilized for operation visibility and control

 $^{\star\star}{\rm I/O}$  can be of any configuration of available expansion modules

\* \* \* Available with use of external barriers



### Programmable Panel System for Full-Featured Control (Catalog Section 50)

### Full-Featured Control Panel Featuring The Centurion<sup>™</sup> *PLUS* Controller

- Full-featured monitoring, control and data acquisition system
- Latest processing technology with full-color touchscreen HMI

	commu- nications	complex calculations	I/O	configurable I/O expansion	non-incendive inputs	,	area classification
Centurion PLUS	2 RS232/ RS485*	•	53/12 NO/NC	user defined**	•	•***	CSA cl. l, div. 2 grps. B, C, D
3rd Party PLC	user defined*	•	user defined**	user defined**	•	•***	CSA cl. l, div. 2 grps. C & D

\*Communication ports utilized for operation visibility and control

\*\* I/O can be of any configuration of available expansion modules

\*\*\*Available with use of external barriers

## COMPRESSOR CONTROLS

Basic shutdown? Temperature scanning? Total control? Whatever level of control you need, Murphy has you covered. Don't pay extra, and don't settle for too little. Find a controller with the right mix of features for you.

### Annunciators

(Catalog Section 50)

#### Featured Product: TTD™ Annunciator

- Digital annunciator with shutdown capabilities
- Monitors up to 48 user-configurable sensor inputs
- Communications ports included
- Additional options available, such as tachometer, pre/post lube, and lube no-flow detection



	DC power	ignition power	AC power	Div. 1 classification	Div. 2 classification	internal tachometer	hourmeter	NO/NC inputs
TTD	•	•			•	•	•	48
LCDT	•	•	٠	•				47/45
S1501	٠		٠	•		٠	٠	26/64

### **Temperature Scanners**

(Catalog Section 10)

#### Featured Product: TDXM Temperature Scanner

- Scans up to 24 channels
- Three adjustable trip points per channel
- Accepts any combination of J- or K- type ungrounded thermocouples



	points	digital display	communications (RS485)	DC power	ignition power	AC power	outputs
TDXM	24	•	•	•			3
TDX6	6	•		•	•	•	6
MDTM89	2	•		•	•	•	2

## COMPRESSOR CONTROLS



### Controllers

(Catalog Section 50)

#### Featured Product: Centurion<sup>™</sup> Controller

- Fully-configurable control and monitoring system
- Expandable to meet most 3-stage compressor applications
- No programming experience required Off-the-shelf configuration handles the most commonly used control sequences

#### Featured Product: Centurion™ PLUS Controller



	analog inputs	thermocouple inputs	analog outputs	digital inputs	digital outputs	expandability	expansion I/O	communication ports	USB	display
Centurion	12	8	2	32	10	2 modules	varies by module, limited to 1 expansion module	2 RS485/ RS232 + USB	•	Monochrome 2.3" graphic display
Centurion PLUS	12	8	2	32	10	3 modules	varies by module, up to 3 modules	2 RS485/ RS232 + USB	•	6 or 10" color touch screen

## PROCESS MONITORING INSTRUMENTS

Do you have a function of your equipment that needs monitoring or controlling? That's what you'll find here. Get clear information on the health of your equipment, and protect it through automatic monitoring.

## Vibration Switches and Controls

(Catalog section 20)

Featured Product: EVS<sup>™</sup> – Electronic Vibration Switch

- Electronically integrated output signal trips on velocity-based vibration
- Adjustable calibrated set-point controls
- Accelerometer-based for accuracy and durability
- Optional 4-20 mA output for continuous monitoring capability
- Available for class 1, div.1 or 2, grps. c & d hazardous areas

	Vibration switch	monitor	4-20 mA output	hazardous rated *
VS2	•			
VS2EX	•			•
EVS	•	•	•	•
CSS-series	•			•
VS94	•			

\*specific models only

## Level Maintainers and Level Switches

(Catalog section 15)

#### Featured Product: LM500 Lube Level Maintainer

- Automatically maintains lube level
- Displays oil level and condition without shutting down
- Low level switch with optional (TF) "test feature"
- Positive sealing Thumb-Valve™ Operation

	maintainer	sight glass	gage	level switch test feature	hazardous rated*
LM500	•	•		•	•
LM300-series	•	•		•*	•
L150			•	•*	
EL150-series			•	•*	•
L129		•			
L100-series		•			
OPLH-series			•		•





\*specific models only

## PROCESS MONITORING INSTRUMENTS

### Scrubber Level Controls (Catalog section 15)



#### Featured Product: MLSO20 Liquid Level Model

- Designed for harsh, gas compressor scrubber applications
- 304 stainless steel float
- ANSI 12.27.01 single seal
- LS200 Series rated for 2000 psi (13.8 MPa) [138 bar] working pressure
- Improved, more dependable design with a reduced number of moving parts

	pneumatic	electric	SPDT	DPDT option	scrubber vessel connection	hazardous rated*	DVO pilot valve	DVOR w/filter regulator
MLSO20		•	•		1.5 or 2 NPT	•		
LS200		•	•	•	2 NPT	•		
LS200N	•				2 NPT		•	•
L1100		•	•	•	1.5 NPT	•		
L1100N	•				1.5 NPT		•	•

\*specific models only



#### Valves (Catalog section 15/55)

#### Featured Product: DVU Series Dump Valve

- For Separators/Scrubbers to 2000 psi
- Hex union allows plug and seat replacement without piping removal
- Operates on 30-70 psi control pressure

	scrubber vessel connection	outlet pipe size	max. working pressure
150-series*	1 NPT	1/2 NPT	1800 psi
175-series*	1 NPT	3/4 NPT	1800 psi
2100-series	2 NPT	1 NPT	500-2000 psi

\*316 stainless steel model available.

## PROCESS MONITORING INSTRUMENTS continued

Fuel Valves (Catalog section 55)

#### Featured Product: M50 Series Fuel Shutoff Valve

- Instant response to shut off signal
- Positive valve closure
- Vents gases trapped after shutdown

	shutoff valve	check valve	pressure relief valve	energize to open	applications
SV-series	•			•	diesel
CKV		•			diesel
PRV			•		diesel
M25	•				natural gas
M50	•				natural gas

## **Pressure and Temperature Sensors**

(Catalog section 5/10)

Featured Product: PXT Series Pressure Transmitters

- 0.25% accuracy
- 4-20 mA output signal
- Precision etched silicon sensor
- Corrosion resistant construction
- High stability

	pressure	temperature	SPDT	switch	transmitter	direct mount
PSB	•		• (factory set)	•		•
TSB		•	• (factory set)	•		•
PXT	•				•	

# PROCESS MONITORING



### **Temperature Sensors**

(Catalog section 10)

Featured Product: Thermocouple Encased in 1/4" Stainless Steel

- 316 braided armor with Teflon overlay extension wire
- K type, 6" and 10" long 1/4" probes
- Can be bent anywhere along its length to a 90° angle
- Tip sensitive to minimize temperature influence from surrounding environment

	sensor	transmitter	direct mount	conduit head	output
TC-series	J/K		•	•	mv
1/4" Thermocouple	К		•		mv
RTD	100 Ohm, platinum		•	•	100 Ohm, 3 wire
RTDT	100 Ohm, platinum	4-20 mA	•	•	4-20 mA



## Speed Measurement and Switches

(Catalog section 20)

#### Featured Product: SHD30 Tach/Hourmeter

- Digital tachometer/hourmeter with overspeed trip point
- Normally open and normally closed overspeed alarm and shutdown
- Approved for class I, division 2 gps. c & d hazardous areas

	speed sensor	speed switch	adjustable setpoint	output	SPDT	mag pickup	CD ignition	alternator
MP (Mag Pickup)	•			pulsed		•		
SS300 series		•	1	relay	•	•		•
OS77 series		•	1	transistor		•		•
HD9063 series		•	2	relay	•	•		
SHD30		•	1	solid state/ relay	•	•	•	





### FW Murphy

P.O. Box 470248 Tulsa, Oklahoma 74147 USA

Phone: 918.317.4100 Fax: 918.317.4266 E-mail: sales@fwmurphy.com Web site: www.fwmurphy.com

#### Industrial Panel Division\*\*

P.O. Box 470248 Tulsa, Oklahoma 74147 USA

Phone: 918.317.4100 Fax: 918.317.4124 E-mail: ipdsales@fwmurphy.com Web site: www.fwmurphy.com/ ipd

#### Control Systems & Services Division\*

P.O. Box 1819 Rosenberg, Texas 77471 USA Phone: 281.633.4500 Fax: 281.633.4588 E-mail: css-solutions@fwmurphy.com Web site: www.fwmurphy.com

#### Frank W. Murphy LTD

Swichgage House, Church Rd Laverstock, Salisbury, SP1 1QZ United Kingdom Phone: +44 (0) 1722 410055 Fax: +44 (0) 1722 410088 E-mail: sales@fwmurphy.co.uk Web site: www.fwmurphy.co.uk



USA-ISO 9001:2008 FM 28221 UK-ISO 9001:2008 FM 29422 CHINA-ISO 9001:2008 FM 52385 Registered Facilities

\*Oil & Gas Applications: Field Gas Gathering, Gas Transmission, Gas Power Generation

\* \*Industrial Applications: Industrial Stationary, Off Highway, Marine, Power Generation

#### Computronic Controls

41 – 46 Railway Terrace Nechells, Birmingham, B7 5NG United Kingdom E-mail: sales@computroniccontrols.com Web site: www.computroniccontrols.com



In order to consistently 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 subject to change without notice. Certified specifications and performance data available upon request.

All trade marks and service marks used in this document are the property of their respective owners.

#### Distributed by:

FW Murphy Instruments

信德迈科技(北京)有限公司 CNMEC Technology 北京市朝阳区胜古中路2号金基业大厦201室 P.O.Box:100029 Phone:010-8428 2585, 8428 2935, 8428 9077 Fax:010-8428 8762 E-mail: sales@cnmec.biz Web site: www.cnmec.com

Cell Phone: 139 1096 2635

www.fwmurphy.com

1010702 Printed in USA