



CONTROLS & INSTRUMENTATION
2012 CONDENSED CATALOG



FW 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. ▲





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



FW Murphy Products



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Mechanical Pressure Swichgage® and Murphygage® Instruments (Catalog Section 5)
 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 Temperature Swichgage® and Gage Instruments (Catalog Section 10)

Featured Products: 2" and 4.5" Dial Gages

- 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



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

Most of these products feature standard normally open switch outputs

	pressure	differential pressure	vacuum	hazardous rated*	2" 51 mm	2.5" 64 mm	4.5" 114 mm	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			•		•	•		•	•	
20BPG**		•			•	•		•	•	
OPL-series		•		•	•	•		•	•	•
OPL-BP-series		•		•	•	•		•	•	•
45APE		•		•	•	•		•	•	•
PT167EX		•			•	•		•	•	•

*Specific models only
 **No contacts

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

*Specific models only
 **No contacts

Electric Switchgag® and Gage Instruments and Senders (Catalog Section 70)

Featured Products:
EG21V Gage and EGS21P Switchgag

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



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

Time Vibration and Overspeed Instruments (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	magnetic pickup	alternator	battery voltage ignition	electro-mechanical	backlite
MT90	•		•	•	•	•		•	
MTH6	•		•	•	•	•	•	•	
TM-series		•	•	•				•	
AT-series		•		•				•	

PowerView™ Analog Gages (Catalog Section 78)

Featured Product:

MurphyLink® CAN-Direct Gage
PVCAN20-B Temperature Gage

- Displays J1939 parameters in an analog gage
- 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 inch 51 mm	3.5 inch 89 mm	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	•	•	•				

PowerView™ Displays (Catalog Section 78)

Featured Product:

PV25 - J1939 Display

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



See page 12 for additional J1939 MurphyLink® Products

DISPLAYS continued

J1939/CAN PowerView™ Displays
(Catalog Section 78)

Featured Product: **PV750 Display**

- Murphy's flagship J1939 display
- Large full-color WVGA 7" screen
- Full integration in a single display
- Fully customizable screens and controls through PowerVision Configuration Studio™
- GPS display capabilities built-in



Featured Product: **PV450 Display**

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



Featured Product: **PV101 Display**

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



DISPLAYS continued

PowerView™ Analog Gages
(Catalog Section 78)

Featured Product:

HV750 Display

- Murphy's flagship J1939 display
- Large full-color WVGA 7" screen
- Full integration in a single display
- Fully customizable screens and controls through PowerVision Configuration Studio™
- GPS display capabilities built-in



	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	•	•	4.3" (109mm)
PV750	12 / 24	color WVGA	3	•	•	7" (177mm)
HV750	12 / 24	color WVGA	3	•	•	7" (177mm)

Other MurphyLink® J1939 Products

Featured Product:

Expandable I/O Modules

- 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



ENGINE CONTROLS

EICS – Engine Integrated Controls System (Catalog Section 50)

The Engine Integrated Control System breathes new life into stationary engines. This turn-key engine integration package quickly and easily brings up-to-speed old engines – saving time and the hassle associated with sourcing and installing separate components.

All major components are included in one complete package, precalibrated and dyno-tested. No more spec'ing out parts. No more dialing in. All the work is done. Each EICS system is designed and tested to ensure specific engine models run at optimum performance, eliminating the need for manual field adjustments and reducing fuel costs.

- Engine Control Module (ECM)**
- Ignition
 - Air/Fuel Ratio
 - Diagnostics
 - Efficiency
 - Regulation
 - Reporting
 - Local/Remote
 - Speed Governing

Electronic Governing/
Suction Pressure Base
Speed Control

Color Display for Operation,
Status and Diagnostics

Air / Fuel Management
Mixer

Integrated Catalyst/
Sensor Package

Air / Fuel Management
EPR Electronic Pressure
Regulator

Harnesses

Smart Coils



ENGINE CONTROLS continued

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

	outputs	energy storage	simultaneous pairing	crankshaft reference	remote comm port	CSA certified CI 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		•		

For detailed information on MPI and Compliance Controls line of products see the Murphy Complete Catalog Sect. 50



Compliance Controls (Catalog Section 50)

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

- Simplest multi-setpoint, load following controller
- Configuration via menu driven HMI/display (no laptop required)
- 9 air/fuel targets for 9 load levels
- Pre and Post catalyst oxygen sensor feedback
- Streamlined menu-driven navigation
- On-screen help and setup tips

	engine type	number of setpoints	configurable by	post-catalyst sensor input option	manifold pressure sensor input	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		

ENGINE CONTROLS continued

Engine Controllers (Catalog Section 40)

Featured Products: EMS PRO and EMS PROLITE Engine Monitoring System Controllers

- 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 PRO	•	•	•	•	•	•	•
EMS PROlite	•	•	•	•	•	•	•
eGuard	•	•	•	•	•	•	•
Cascade CD101	•	•	•	•	•	•	•
ASM series	•	•	•	•	•	•	•
A91 Series	•	•	•	•	•	•	•

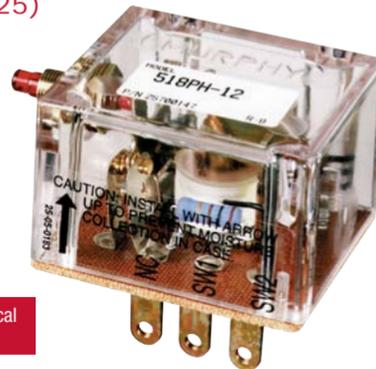
Other Engine Controls:

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

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

Featured Product: Tattletale® Annunciators

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



	annunciator	magnetic switch	12VDC/24VDC	120VAC	cd ignition	electrical latch	mechanical latch
117*	•	•	•				•
518 series	•	•	•			•	
MS series	•	•	•	•	•		•

* 117 without DH does not announce

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 continued

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 Swichgauge instruments via Tattletale® Annunciator or Magnetic Switch relay

	throttle	clutch	rack puller	ETR	ETS	omnivoltage	12VDC	24VDC
ATO3069	•					•		
C03		•					•	•
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 fail relay output
Sentinel 150	•	•	•	5A @ 12/24VDC 10A @ 12VDC	12/24	•
Sentinel 300P	•	•	•	10A @ 12/24VDC	12/24	•

PANELS AND SYSTEMS

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

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 custo programming and configuration to equipment dashes and custom displays – if you can imagine it, we can build it.

Featured Product:

Featured Product: M-Series MurphyLink™ 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
M110 series		•	PV101			
M310 series		•	PV101	PVA		
M510 series	•	•			Cascade	4/4
M610 series	•	•		PVA	Cascade	4/4

PANELS AND SYSTEMS

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 Applications
EA150	Basic Micro Controller
AEC101	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

PANELS AND SYSTEMS

Panel Systems for Equipment Monitoring and Protection (Catalog Section 50)

Featured Product:

Basic Shutdown Panel Featuring The TTD™ Annunciator

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

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

* Communication ports utilized for operation visibility

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 Wellhead Compression Control (Catalog Section 50)

Featured Product:

Basic Autostart Control Panel Featuring The WellPro™ Controller

- OEM programmable control system
- Includes alarm and shutdown control

	communications	configurable I/O	non-incendive inputs	intrinsically safe inputs	area classification
WellPro	RS485/USB*	17/8 NO/NC	•	•	CSA cl. 1, 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.



PANELS AND SYSTEMS

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

Basic Shutdown/Autostart Panel Featuring The Centurion™ 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.I, div 2 grps B, C, D
S1501	RS232/RS485	67/7 NO/NC		•	•	CSA cl. 1, div 1 groups 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



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

Full-Featured Control Panel Featuring The Centurion™ PLUS Controller

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

	communications	complex calculations	I/O	configurable I/O expansion	non-incendive inputs	intrinsically safe inputs	area classification
Centurion PLUS	2 RS232/RS485*	•	53/12 NO/NC	user defined**	•	•***	CSA cl.I, div 2 grps B, C, D
3rd Party PLC	user defined*	•	user defined**	•	•***	•***	CSA cl. 1, div 2 groups 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

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	•	•	•	•				47/45
S1501	•		•	•		•	•	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
- Exhaust and Bearing temperature xxxxxxxx

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

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.



COMPRESSOR CONTROLS

Controllers (Catalog Section 50)

Featured Product:

The Centurion™ 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
- C4 configuration tool available

Featured Product:

The Centurion™ PLUS Controller

- Latest evolution in Murphy's controllers
- HMI touchscreen, Full-featured controller
- Custom application Programming
- Full time data logging
- Expandable communication capabilities



	analog inputs	thermocouple input	analog outputs	digital input	digital outputs	expandability	expansion I/O	communication ports	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	2 modules	varies by module up to 3 modules	2 RS485/RS232+USB	6 or 10" color touch screen

PROCESS MONITORING INSTRUMENTS

Vibration Switches and Controls (Catalog Section 20)

Featured Product:

EVS-2™ – 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	4-20mA output	hazardous rated*
VS2	•			
VS2EX	•			•
EVS-2	•	•	•	•
CSS-series	•			•
VS94	•			

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.



PROCESS MONITORING INSTRUMENTS

Scrubber Level Controls (Catalog Section 15)

Featured Product:

MLS Series Liquid Level Switch

- 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
MLS015		•	•		1.5 NPT	•		
MLS020		•	•		2 NPT	•		
LS200		•	•	•	2 NPT	•		
LS200N	•				1.5 NPT		•	•
L1100		•	•	•	1.5 NPT	•		
L1100N	•				1.5 NPT		•	•

*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



Valves (Catalog Section 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 models 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

PROCESS MONITORING INSTRUMENTS Continued

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	K		•		mv
RTD	100 ohm platinum		•	•	100 ohm 3-wire
RTDT	100 ohm platinum	4-20 mA	•	•	4-20 mA

Pressure and Temperature Switches and Transmitters (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	•				•	

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	magnetic pick up	CD ignition	alternator
MP (mag pickup)	•			pulsed		•		
SS300-series		•	1	relay	•	•		
OS77-series		•	1	transistor		•		•
HD903-series		•	2	relay	•	•		•
SHD300		•	1	solid state /relay	•	•	•	



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* Oil & Gas applications: Field Gas Gathering, Gas Transmission, Gas Power Generation.

**Industrial applications.

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