

Pressure and Temperature Switches

STANDARD DIFFERENTIAL PRESSURE SWITCH



Small size and high overpressure capability make our differential pressure switch ideal for most process and industrial applications. Minimum static working pressures of 500 psi allow use on the most difficult filter applications.

We use a unique combination of diaphragm-sealed piston actuators to get our high static pressure performance in 12 ranges.

For inches of water ranges, we use a large diaphragm for sensitivity which results in lower, more conventional working pressure. Consult the factory for application assistance on differential pressure switch selection.

ATEX APPROVAL FOR HAZARDOUS LOCATIONS



ATEX is a European designation that deals with standards for equipment and protective systems intended for use in potentially explosive atmospheres. This approval is required for switches intended for use in hazardous locations, especially important to OEMs who export to Europe and contractors specifying or purchasing products for European applications.

XCN option adds special features to Ashcroft 700-Series switch enclosures that meet the requirements for the highest levels of security and danger, such as:

- Special locking device requiring an Allen wrench to remove cover
- Special vents that blow out should the diaphragm rupture, thus preventing pressure build-up in the enclosure
- Special conduit plug requiring an Allen wrench for removal
- Available on pressure, temperature and d/p models
- Meets explosion class Ex d IIC T6
- IECEx models available
- Dual Seal Rating models available



LOOK FOR THIS MARK ON OUR PRODUCTS

U.L. LISTED STEAM LIMIT CONTROL



The Ashcroft steam-limit control switch is designed for use on boilers equipped with electrically operated burners. The limit control is an adjustable pressure-operated switch set to stop burner operation when the recommended safe boiler working pressure is exceeded.

We recommend a stainless steel diaphragm for steam service. A pigtail siphon should also be used to reduce the possibility of high temperature affecting switch performance. This listing is available for setpoints up to 300 psi.



LOOK FOR THIS MARK ON OUR PRODUCTS

U.L. LISTED PRESSURE LIMIT CONTROL



The Ashcroft medium-pressure gas and oil limit control switch is designed for use with air, LP gas, natural gas, #1 and #2 fuel oil and #6 oil preheated to 240°F. This limit control is an adjustable pressure-operated switch with a secondary chamber to prevent fuel from entering the switch enclosure in the unlikely event that the diaphragm develops a leak. The control shuts down a fuel pump in high or low pressure conditions.



LOOK FOR THIS MARK ON OUR PRODUCTS

Transducers & Transmitters

MODEL GC31 ULTRA-COMPACT DIGITAL PRESSURE SENSOR

NEW!



ACCURACY: $\pm 1.0\%$ FS
ANALOG OUTPUT: (1-5Vdc)
DISPLAY TYPE: 3½ digit, 10mm LED
STANDARD RANGES (Gauge):
 50 to 1500 psig
STANDARD RANGES (Compound):
 -15 to 15 psig thru -15 to 300 psig
Proof Pressure:
 2X range: 500 psi & below
 1.5X range: 1000 psi & above
Burst Pressure:
 10X range
SWITCH CONTACTS:
 (2) NPN or PNP open collector outputs
MEDIA: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)
ENVIRONMENTAL RATING: IP40
AGENCY APPROVALS: CE



This ultra-compact pressure sensor is used on a wide variety of applications where consistent, reliable pressure measurement is essential. The GC31 features an integral display, user scalable analog output and two independent switches. Ideal for monitoring and control of pneumatic and hydraulic systems where high cycle life and functionality is required.

MODEL GC35 ULTRA-COMPACT DIGITAL PRESSURE SENSOR

NEW!



ACCURACY: $\pm 1.0\%$ FS
ANALOG OUTPUT: (4-20mA)
DISPLAY TYPE: 4 digit, 8mm LED
STANDARD RANGES (Gauge):
 50 to 7500 psig
STANDARD RANGES (Compound):
 -15 to 75 psig thru -15 to 300 psig
Proof Pressure:
 Ranges 1500 psig & below: 4X range
 Ranges 3000 psig & above: 2.5X range
Burst Pressure:
 Ranges 1500 psi & below: 10X range
 Ranges 3000 psi & below: 5X range
 Ranges 5000 psi & above: 3X range
SWITCH CONTACTS:
 (2) NPN or PNP open collector outputs
MEDIA: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)
ENVIRONMENTAL RATING: IP40
AGENCY APPROVALS: CE



Ultra-compact digital pressure sensor, ideal for monitoring pressures within hydraulic presses/stamping equipment and lifts, water/wastewater pressure control and cooling / lubrication systems. This versatile sensor offers a highly visible LED display for local indication. Product features allow the user to configure the analog scaling to any range within the full scale of the sensor range while integrated switches offer actuation and deadband to any points within the full scale range.

TYPE GC51 RANGEABLE PRESSURE TRANSMITTER



ACCURACY: $\pm 0.25\%$ FS (URL)0
ANALOG OUTPUT: 4-20mA (2-wire)
DISPLAY TYPE: 4 digit, 10mm LCD with LED backlight
STANDARD RANGES (Compound):
 -15 to 15psi thru -15 to 50psi
STANDARD RANGES (Gauge):
 50 to 7500 psig
Overpressure (F.S.):

	Proof	Burst
1500psi and below	200%	500%
3000, 5000psi	150%	300%
7500psi	120%	150%

ENVIRONMENTAL RATING:
 IP65 / NEMA 4X
MEDIA: Fluids and gases compatible with 316SS and pH17-4 stainless steel
AGENCY APPROVALS: CE



Compact pressure transmitter used to monitor wet/dry media pressures within process automation, hydraulic systems, compressors, pumps and tank level applications.

TYPE GC55 WET/WET DIFFERENTIAL PRESSURE TRANSDUCER



ACCURACY: $\pm 0.5\%$ FS
ANALOG OUTPUT: (4-20mA or 1-5Vdc)
DISPLAY TYPE: 3½ digits
STANDARD RANGES (Differential):
 75 to 300 psid
Pressure Range Proof Burst
 All 2X FS (URL) 10X FS (URL)
Static (Line) Pressure Effects: None
Single Side (Differential Limits):
Pressure Range Proof Burst
 All 2X FS (URL) 10X FS (URL)
MEDIA: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)
ENVIRONMENTAL RATING: IP66

Compact high-differential pressure transducer for filter monitoring on HVAC hydronic cooling/heating systems and pump controls. Model contains two polysilicon thin film sensors with welded Stainless Steel wetted components to accommodate wet or dry pressure media. The product features a bright LED front panel display for local indication and button to allow the user to select between the dP value and line pressure readings from either sensor.