

**PRESSURE &
TEMPERATURE
INSTRUMENT
QUICK GUIDE**



Ashcroft® Inc. – the experts in pressure and temperature measurement

Over 150 years ago, Edward Ashcroft saw the need for safer, more sophisticated pressure and temperature instruments for use in the emerging steam industry. In response, he introduced a then-revolutionary new Bourdon tube pressure gauge.

The rest is history.

Times continue to change and so do the needs of industry. Products manufactured by Ashcroft Inc. have become the benchmark in pressure and temperature measurement and include gauges, thermometers, switches, transducers, transmitters, instrument isolators and diaphragm seals and control and calibration equipment.

Specified around the world for the most demanding requirements, these instruments are widely recognized under the brand names Ashcroft,® Heise,® Willy,® and Weksler.® And you can find them in wastewater treatment facilities, biotech and pharmaceutical labs, medical applications, semiconductor facilities, refineries, power generation plants, food processing plants, pulp and paper mills, chemical manufacturing plants and the host of support companies that serve these industries.

Our team consists of experts ready to help resolve even the most difficult applications and technical issues. If you require broader

specifications than our standard product line offers, our engineers, technical staff and product marketing specialists can work with you to custom fit the right product to the job. Our customer service representatives are highly trained to answer product application questions, offer competitive product cross references and work closely with you to help meet your goals.

We maintain an extensive network of field and in-house sales personnel, local representatives and distributors to ensure you receive quick product delivery and service. Along with our “partner” representatives we offer product training and education, facility surveys, calibration services, seal assembly and answers to your application questions.

Safety is a critical issue, and our instrument audit can improve the safety of your plant. Industry surveys indicate that 20% to 30% of customers’ instruments are misapplied and fail prematurely due to pulsation and vibration, allowing the process media or liquid fill to escape and cause environmental damage or even harm those nearby. Experts from Ashcroft Inc. can help identify areas of concern before they become problems. This important service will help prevent accidents, avoid misapplications and save money and time.

As the leader in technology and innovation we design new products based on current and emerging market requirements as well as individual customer’s requirements. As the industry leader our “firsts” lead the way with breakthrough new product features and value added benefits for the customer.

ASHCROFT® INC.



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Digital Gauges

Test Instruments

TYPES 2089, 2086, 2084 PRECISION DIGITAL TEST GAUGE



ACCURACY ±0.05%, 0.10% or 0.25% of span
CASE SIZE 3"
CASE MATERIAL 300 Series stainless steel, electropolished
WETTED MATERIALS 316 stainless steel connection
SOCKET SIZE 1/4 NPT JIS, DIN, SAE, (others on application)
CONNECTION Lower (6 o'clock)
RANGES Vac., 5 psi thru 7000 psi including compound and absolute
POWER SOURCE Three AAA alkaline batteries
BATTERY LIFE > 1000 hrs.
OPERATING TEMPERATURE Temperature corrected from 0/150°F (-18/63°C)
STORAGE TEMPERATURE -40/180°F (-40/82°C)
AGENCY APPROVALS CE, EN 50082-1 (1997), FM, CSA

With total error band accuracy including temperature from 0/150°F (-18 to 63°C) applications include metrology labs, gas distribution and transmission and analog test gauge users.

TYPES 2074, 2174, 2274 INDUSTRIAL DIGITAL GAUGE



ACCURACY: ±0.25% of span
CASE SIZE 3, 4 1/2"
CASE MATERIAL (3") 300 series stainless steel (4 1/2") fiberglass reinforced thermoplastic (4 1/2") black painted aluminum
WETTED MATERIALS 17-4 PH stainless steel sensor; 316 stainless steel socket
SOCKET SIZE 1/4 NPT, 1/2 NPT (4 1/2" case only))
CONNECTION Lower (6 o'clock)
RANGES Vac. and 15 psi thru 20,000 psi including compound
POWER SOURCE Battery (3") Two AA alkaline batteries (4 1/2") Two C alkaline batteries Loop powered 4-20mA Line powered, (12-36 Vdc, 1 amp)
BATTERY LIFE (3") >1000 hrs. (4 1/2") >3600 hrs.
OPERATING TEMPERATURE 14/140°F (-10/60°C)
STORAGE TEMPERATURE -4/158°F (-20/70°C)
AGENCY APPROVALS CE, EN 50082-1 (1997), FM, CSA, CENELEC-ATEX 100

Available with optional (1) or (2) SPDT switches and 4-20mA output, this gauge is ideal for many industrial applications. This product eliminates the need for unnecessary piping, switches and transducers.

TYPE D1005PS GENERAL PURPOSE DIGITAL GAUGE



*Protective Boot Optional

ACCURACY ±0.5% of span
CASE SIZE 2 1/2"
CASE MATERIAL Noryl®
WETTED MATERIALS 17-4 PH stainless steel sensor; 316 stainless steel socket
SOCKET SIZE 1/4 NPT
CONNECTION Lower (6 o'clock)
RANGES Vac. thru 19,999, including compound
POWER SOURCE Two AAA alkaline batteries
BATTERY LIFE 1000 hrs.
OPERATING TEMPERATURE 14/140°F (-10/60°C)
STORAGE TEMPERATURE -4/158°F (-20/70°C)
AGENCY APPROVALS CE, EN 61326 (1998) CE, EN 61326 Annex A (heavy industrial)

This product is an excellent choice for a wide variety of pressure measurement applications. When compared to mechanical gauges the D1005PS offers overall enhanced value.

TYPE 1084 3" TEST GAUGE



ACCURACY ASME B 40.1 Grade 2A (±0.5% of span)
DIAL SIZE 3"
CASE MATERIAL 300 series polished stainless steel
MATERIAL 316 stainless steel
SENSING ELEMENT Bourdon tube
CONNECTION 1/4 NPT lower only
RANGES Vac. to 1000 psi

Ideal for use when a quality analog pocket test gauge is required.

Test Instruments

1082 4 1/2", 6", 8 1/2" TEST GAUGE	TYPES 2089, 2086, 2084 PRECISION DIGITAL TEST GAUGES	TYPE ATE-100 LCD DIGITAL CALIBRATOR	ST-2A LCD DIGITAL INDICATOR
			
ACCURACY ASME B 40.1 Grade 3A ($\pm 0.25\%$ of span)	ACCURACY $\pm 0.05\%$, 0.10% or 0.25% of span	PRESSURE MEASUREMENT ACCURACY ± 0.025 , 0.05 and 0.1% of span	PRESSURE MEASUREMENT ACCURACY ± 0.025 , 0.05 and 0.1% of span
DIAL SIZE 4 1/2", 6", 8 1/2"	CASE SIZE 3"	PRESSURE RANGES 0/0.25 in. H ₂ O through 0/10,000 psi	PRESSURE RANGES 0/0.25 in. H ₂ O through 0/10,000 psi
CASE MATERIAL Aluminum, phenolic, polypropylene	CASE MATERIAL 300 Series stainless steel, electropolished	PRESSURE TYPES Gauge, compound, vacuum, absolute and differential	PRESSURE TYPES Gauge, compound, vacuum, absolute and differential
WETTED MATERIAL Bronze/brass, Monel	WETTED MATERIALS 316 stainless steel connection	TEMPERATURE COMPENSATION 20-120°F	TEMPERATURE COMPENSATION 20-120°F
SENSING ELEMENT Bourdon tube	SOCKET SIZE 1/4 NPT JIS, DIN, SAE (others on application)	TEMPERATURE MEASUREMENT Supports most common RTD-type temperature probes and thermocouples	TEMPERATURE MEASUREMENT Supports most common RTD-type temperature probes and thermocouples
CONNECTION 1/4 NPT (standard) and 1/2 NPT lower or back (optional)	CONNECTION Lower (6 o'clock), 3 and 9 o'clock	DIMENSIONS 7.88 in. (L) x 4.24 in. (W) x 3.25 in. (H)	DIMENSIONS 10.9 in. (L) x 6.74 in. (W) x 4.0 in. (H)
RANGES Vac. to 10,000 psi	RANGES Vac., 5 psi thru 7000 psi including compound and absolute	WEIGHT Max. 2.2 lbs. w/2 pressure modules installed	PANEL CUTOUT 6.56 in. x 3.53 in.
	POWER SOURCE Three AAA alkaline batteries	CASE MATERIAL High impact ABS	WEIGHT Max. 4.08 lbs. w/2 pressure modules installed
	BATTERY LIFE > 1000 hrs.	SENSOR MODULE CAPACITY 2 bays for Ashcroft AQS "Quick Select" sensor modules	CASE MATERIAL High impact ABS
	OPERATING TEMPERATURE Temperature corrected from 0/150°F (-18/63°C)	DISPLAY 2 line LCD, 0.037 in. height per line. Can display simultaneous readings from 2 modules	SENSOR MODULE CAPACITY 2 bays for Ashcroft AQS "Quick Select" sensor modules
	STORAGE TEMPERATURE -40/180°F (-40/82°C)	ELECTRICAL CONNECTION Miniature recessed banana jacks (one set of test leads provided with each ATE-100)	DISPLAY 2 line LCD, 0.037 in. height per line. Can display simultaneous readings from 2 modules.
	AGENCY APPROVALS CE, EN 50082-1 (1997), FM, CSA	UPDATE RATE 130 ms (nominal) with one sensor installed	ELECTRICAL CONNECTION Standard banana jacks
		RESOLUTION $\pm 0.002\%$ of span, 60,000 count (max)	OPERATING TEMPERATURE RANGE 32° to 120°F
		DAMPING (Measurement Averaging) Programmable averaging from zero through 16 consecutive readings	UPDATE RATE 130 ms (nominal) with one sensor installed
		SERIAL INTERFACE Type: RS-232 up to 9600 baud	RESOLUTION $\pm 0.002\%$ of span, 60,000 counts (max)
			ELECTRICAL MEASUREMENTS 0-50 mA or 0-30 Vdc
1/4% full scale accuracy for test and laboratory applications.	Superior accuracy for test and laboratory applications.	Field or laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.	Laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.

Test Instruments

TYPE 1305D DEADWEIGHT TESTER	TYPE 1327D, 1327CM GAUGE COMPARATOR	MODEL PT, DUAL DISPLAY LCD DIGITAL INDICATOR	TYPE AVC-1000 & 3000 VOLUME CONTROLLER
			
ACCURACY $\pm 0.1\%$ of reading	OPERATING PRESSURE 0-10,000 psi (maximum) (0-70,000 kPa)	PRESSURE MEASUREMENT ACCURACY $\pm 0.025, 0.05$ and 0.1% of span	TYPE AVC-1000 / AVC-3000
OPERATING PRESSURE 15 psi to 10,000 psi (100 kPa to 70,000 kPa)	OPERATING MEDIA Std.: SAE 20 weight automotive or machine oil Opt.: Phosphate-based or glycol fluids Distilled water for oxygen service	PRESSURE RANGES 0/0.25 in. H ₂ O through 0/10,000 psi	RANGE (psi) vacuum-1000 / vacuum-3000
OPERATING MEDIA 1305D: SAE 20 weight automotive or machine oil	O-RING MATERIAL Standard: Buna N (D Series) Optional: Ethylene Propylene (DH Series)	PRESSURE TYPES Gauge, compound, vacuum, absolute and differential	RESOLUTION (psi) 0.00025 / 0.0005
1305DH Phosphate-based or glycol fluids	RESERVOIR VOLUME Approximately 1.5 pints (0.7 liter)	TEMPERATURE MEASUREMENT Supports most common RTD-type temperature probes	VOLUME CHANGE (cubic inches) 3.5 / 2.5
O-RING MATERIAL 1305D: Buna-N (D series)	SPECIFICATIONS TYPE 1327DG	DIMENSIONS 7.72 in. (L) x 6 in. (W) x 2.95 in. (H)	MECHANICAL ROTATION (turns) 31 / 61
1305DH Ethylene Propylene (DH Series)	ACCURACY $\pm 0.25\%$ F.S.	PANEL CUTOUT 5.4 in. x 2.68 in.	PROOF PRESSURE (psi) 2000 / 6000
PISTON AND CYLINDER MATERIAL Stainless steel	GAUGE TYPE Ashcroft 4½ inch Type 1082 gauges with temperature compensation	WEIGHT Depending on configuration Max. <4 lbs. w/2 sensors and battery pack	BURST PRESSURE (psi) 6000 min / 12,000 min
WEIGHT MATERIAL Non-magnetic die cast zinc	Special "CD-4" Certification package available (see Price Sheet TE/PS-1)	CASE MATERIAL High impact ABS	OPERATING TEMPERATURE RANGE 20-120°F / 20-120°F
RESERVOIR VOLUME Approximately 1.5 pints (0.7 liter)	SPECIFICATIONS TYPE 1327CM	SENSOR CAPACITY 2 bays for Ashcroft PPT sensors	OPERATING MEDIA Clean, dry noncorrosive gas such as compressed air or nitrogen
Special "CD-5" Certification package available (see Price Sheet TE/PS-1)	ACCURACY $\pm 0.1\%$ F.S.	DISPLAY 5 digit, 2 line LCD, 0.038 in. height per line. Can display simultaneous readings from 2 modules.	CONSTRUCTION Aluminum body, stainless steel, brass Teflon, Delrin and Buna N
	GAUGE TYPE Ashcroft 6-inch Type A4A with temperature compensation	OUTPUT Full function RS-232	
	TEMPERATURE COMPENSATION -25°F to +125°F (will maintain $\pm 0.1\%$ F.S. accuracy)	OPTIONS <i>Backlit Display; Built-in NiCad Rechargeable Batteries; Handle; Panel Mounting Brackets</i>	
		OPERATING TEMPERATURE RANGE 32° to 120°F	
		TEMPERATURE COMPENSATION 20-120°F	
		UPDATE RATE 130 ms (nominal) with one sensor installed	
		RESOLUTION $\pm 0.002\%$ of span, 60,000 counts (max)	
Primary deadweight pressure standard and hydraulic pressure source for calibration of other pressure instruments.	Uses either 0.25% or 0.1% "master gauges" and hydraulic pressure source for calibration of other pressure instruments.	Laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.	Added to any pneumatic calibration system, the VC works as a "fine tune" device to achieve specific test points not easily attained with the use of a regulator alone. Used in the calibration of any pneumatic pressure instrument up to 3000 psi.

Test Instruments

Process Gauges

TYPE A4A PRECISION
DIAL PRESSURE GAUGE

ACCURACY
±0.10% of span – ASME B40.1, Grade 4A

CASE
Cast aluminum solid front

DIAL SIZE
6", 8 1/2", 12" & 16"

POINTER TRAVEL
350° (15-30,000 psi)
300° (40,000-50,000 psi)
270° (60,000-100,000 psi)

BOURDON TUBE
Bleeder tipped

RANGES
Gauge, compound, vacuum & absolute
0-15-0/100,000 psi

1279 DURAGAUGE®
PRESSURE GAUGE

ACCURACY
ASME B 40.1 Grade 2A (±0.5% of span)

DIAL SIZE
4 1/2"

CASE MATERIAL
Phenolic

WETTED MATERIAL
316 stainless steel, bronze/brass, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
1/2 NPT (standard) lower or back
1/4 NPT (optional)

RANGES
Vacuum, 15 to 30,000 psi, compound

Usage requiring 1/2% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

1377 DURAGAUGE®
PRESSURE GAUGE

ACCURACY
ASME B 40.1 Grade 2A (±0.5% of span)

DIAL SIZE
4 1/2", 6", 8 1/2"

CASE MATERIAL
Aluminum

WETTED MATERIAL
316 stainless steel, bronze/brass, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
1/2 NPT (standard) lower or back
1/4 NPT (optional)

RANGES
Vacuum, 15 to 30,000 psi, compound

Usage requiring 1/2% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

1379 DURAGAUGE®
PRESSURE GAUGE

ACCURACY
ASME B 40.1 Grade 2A (±0.5% of span)

DIAL SIZE
4 1/2", 6", 8 1/2"

CASE MATERIAL
Aluminum

WETTED MATERIAL
316 stainless steel, bronze/brass, Monel, Inconel

SENSING ELEMENT
Bourdon tube

CONNECTION
1/2 NPT (standard) lower or back
1/4 NPT (optional)
1/4" HP connection over 30,000 psi

RANGES
Vacuum, 15 to 100,000 psi, compound

Usage requiring 1/2% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

Process Gauges

2462 DURAGAUGE®™ PRESSURE GAUGE



ACCURACY
ASME B 40.1 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE
6"

CASE MATERIAL
Polypropylene

WETTED MATERIAL
316 stainless steel, bronze/brass, steel, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
 $\frac{1}{2}$ NPT (standard) lower or back
 $\frac{1}{4}$ NPT (optional)

RANGES
Vacuum, 15 to 30,000 psi, compound

Usage requiring $\frac{1}{2}\%$ full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

1259 PROCESS PRESSURE GAUGE



ACCURACY
ASME B 40.1 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE
4 1/2"

CASE MATERIAL
Polypropylene

WETTED MATERIAL
316 stainless steel, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
 $\frac{1}{2}$ NPT (standard) lower
 $\frac{1}{4}$ NPT (optional)

RANGES
Vacuum, 15 to 20,000 psi, compound

Usage requiring $\frac{1}{2}\%$ full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

2279 DURATRAN® PRESSURE TRANSMITTER



ACCURACY
 $\pm 0.5\%$

DIAL SIZE
4 1/2" analog

CASE MATERIAL
Phenolic

WETTED MATERIAL
316 stainless steel, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION – NPT
 $\frac{1}{2}$ NPT (standard) lower

RANGES
Vacuum and compound, 12 to 20,000 psi

ELECTRONIC OUTPUT

- $\pm 0.5\%$ Accuracy
- 4-20mA
- FM Class I, Div. 2
- Zero/Span adjust

Two instruments in one! Provides local indication and 4-20mA signal for many industrial applications.

Stainless Steel Case & Industrial Gauges

1008S 40 & 50 mm PRESSURE GAUGE	1008S 63 & 100mm PRESSURE GAUGE	1009 2½" & 3½" DURALIFE® PRESSURE GAUGE	X1009 2½" & 3½" XMITR™ TRANSMITTER GAUGE
 <p>ACCURACY ASME B 40.1 Grade B (±3-2-3% of span)</p> <p>DIAL SIZE 40mm, 50mm</p> <p>CASE MATERIAL Stainless steel</p> <p>WETTED MATERIAL 316 stainless steel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION ⅛ NPT lower or back ¼ NPT lower or back</p> <p>RANGES Vac. to 15,000 psi</p> <p>Applications include industrial compressors, valve indicators, firefighting equipment, measurement/control, metal working and hydraulic equipment. Especially suited for pneumatic controllers and transmitters.</p>	 <p>ACCURACY ASME B 40.1 Grade B (±3-2-3% of span)</p> <p>DIAL SIZE 63mm, 100mm</p> <p>CASE MATERIAL Stainless steel</p> <p>WETTED MATERIAL 316L stainless steel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION ⅛ NPT lower or back ¼ NPT lower or back ½ NPT lower (100mm) JIS, DIN, BSP</p> <p>RANGES Vac. to 15,000 psi</p> <p>Applications include industrial compressors, firefighting equipment, measurement/control, metal working, hydraulic equipment and panel builders.</p>	 <p>ACCURACY ASME B 40.1 Grade 1A (±1% of span)</p> <p>DIAL SIZE 2½", 3½"</p> <p>CASE MATERIAL Stainless steel</p> <p>WETTED MATERIAL 316L Stainless steel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION ⅛ NPT lower or back ¼ NPT lower or back ½ NPT lower (3½") JIS, DIN, BSP</p> <p>RANGES Vac. to 15,000 psi</p> <p>For use on fluid power equipment in oil and gas production, construction, mining, machine tools, logging, pulp and paper, general industrial applications.</p>	 <p>ACCURACY Electrical output is 1% BFSI including non-linearity, hysteresis and non-repeatability. Gauge is ASME B40.1 Grade 1A 1%</p> <p>DIAL SIZE 2½", 3½"</p> <p>CASE MATERIAL/INGRESS PROTECTION Stainless steel IP50 (std.), IP65(XJL)</p> <p>WETTED MATERIAL 316L stainless steel</p> <p>SENSING ELEMENT Bourdon tube with patented transducer technology</p> <p>CONNECTION ⅛ and ¼ NPT, G ¼ lower</p> <p>RANGES Compound to 15,000 psi</p> <p>2 Instruments in 1. Breakthrough functionality and value. Stainless steel case, 4-20mA and voltage outputs, cable or Hirschmann conn. CE heavy industrial. Per EN61326, 1998 ANNEX A</p>

Stainless Steel Case & Industrial Gauges

1009 4½" & 6" STAINLESS STEEL CASE	1109 4½" GENERAL SERVICE GAUGE	1009, 1010, 1017, 1220 HYDRAULIC GAUGES	1009, 1010, 1017, 1220 RECEIVER GAUGES
 <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>PLUS! Performance</p>	 <p>PLUS! Performance</p>	 <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>PLUS! Performance</p> <p>1010 GAUGE SHOWN</p>	 <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>1220 GAUGE SHOWN</p>
ACCURACY ASME B 40.1 Grade 1A (±1% of span)	ACCURACY ASME B 40.1 Grade 1A (±1% of span)	ACCURACY ASME B 40.1 Grade 1A (±1% of span)	ACCURACY ASME B 40.1 Grade 1A (±1% of span)
DIAL SIZE 4½", 6"	DIAL SIZE 4½"	DIAL SIZE 1009 – 4½", 6" 1010 – 4½", 6", 8½", 12" 1017 – 4½", 6" 1220 – 4½", 6", 8½"	DIAL SIZE 1009 – 4½", 6" 1010 – 4½", 6", 8½", 12" 1017 – 4½", 6" 1220 – 4½", 6", 8½"
CASE MATERIAL Stainless Steel	CASE MATERIAL Stainless Steel	CASE MATERIAL Stainless steel, aluminum, phenolic	CASE MATERIAL Stainless steel, aluminum, phenolic
TUBE MATERIAL Bronze, 316 stainless steel, Monel	TUBE MATERIAL SD – 316 stainless steel WD – Inconel	TUBE MATERIAL Bronze, 316 stainless steel, Monel	TUBE MATERIAL Bronze, 316 stainless steel, Monel
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube
CONNECTION ¼ NPT lower or back ½ NPT lower or back	CONNECTION SD – ½ NPT lower, ¼ NPT lower (optional) WD – ¼ NPT lower high pressure	CONNECTION ¼ NPT lower or back ½ NPT lower or back	CONNECTION ¼ NPT lower or back ½ NPT lower or back
RANGES Vac. to 30,000 psi	RANGES SD – Vac. to 1500 psi / 2000-20,000 psi WD – 50,000-100,000 psi	RANGES Vac. to 30,000 psi	RANGES 3/15 and 3/27 psi
Stainless steel case Type 1009 applications include boilers, compressors, water blasting equipment, pharmaceutical and food processing equipment.	Stainless steel case Type 1109 applications include water jet or water blasting equipment, offshore platform, etc.	Uniquely designed for rigorous hydraulic services.	For monitoring pneumatic systems requiring percentage or square root readings.

Stainless Steel Case & Industrial Gauges

1009, 1010, 1017, 1220 REFRIGERATION GAUGE	1010 4½", 6", 8½", 12" GENERAL SERVICE GAUGE	1017 4½", 6" GENERAL SERVICE GAUGE	1220 4½", 6", 8½" GENERAL SERVICE GAUGE
 <p>1010 GAUGE SHOWN</p> <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>ACCURACY ASME B 40.1 Grade 1A (±1% of span)</p> <p>DIAL SIZE 1009 – 4½", 6" 1010 – 4½", 6", 8½", 12" 1017 – 4½", 6" 1220 – 4½", 6", 8½"</p> <p>CASE MATERIAL Stainless steel, aluminum, phenolic</p> <p>TUBE MATERIAL Bronze, stainless steel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION⁽¹⁾ ¼ NPT lower or back ½ NPT lower or back</p> <p>RANGES 30 in.Hg Vac/150 psi, 30 in.Hg Vac/300 psi</p> <p>⁽¹⁾ 1017 back connect only</p> <p>For use on refrigeration equipment utilizing ammonia, freon or other refrigerants.</p>	 <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>ACCURACY ASME B 40.1 Grade 1A (±1% of span)</p> <p>DIAL SIZE 4½", 6", 8½", 12"</p> <p>CASE MATERIAL Stainless steel, aluminum, phenolic</p> <p>TUBE MATERIAL Bronze, stainless steel, Monel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION ¼ NPT lower or back ½ NPT lower or back</p> <p>RANGES Vac. to 30,000 psi</p> <p>General industrial applications requiring larger dials. Applications include oil monitoring, repair and compressors, etc.</p>	 <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>ACCURACY ASME B 40.1 Grade 1A (±1% of span)</p> <p>DIAL SIZE 4½", 6"</p> <p>CASE MATERIAL Stainless steel, aluminum, phenolic</p> <p>TUBE MATERIAL Bronze, stainless steel, Monel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION ¼ NPT back ½ NPT back</p> <p>RANGES Vac. to 30,000 psi</p> <p>General industrial applications, large dials for easier readings. used on pumps, air or oil monitoring, etc.</p>	 <p>IN A RUSH? ASHCROFT GOLD SERVICE</p> <p>ACCURACY ASME B 40.1 Grade 1A (±1% of span)</p> <p>DIAL SIZE 4½", 6", 8½"</p> <p>CASE MATERIAL Stainless steel, aluminum, phenolic</p> <p>TUBE MATERIAL Bronze, stainless steel, Monel</p> <p>SENSING ELEMENT Bourdon tube</p> <p>CONNECTION ¼ NPT lower or back ½ NPT lower or back</p> <p>RANGES Vac. to 30,000 psi</p> <p>General industrial applications, large dials for easier readings. used on pumps, air or oil monitoring, etc.</p>

Stainless Steel Case & Industrial Gauges

Differential Gauges

1020S 4½" XMAS TREE GAUGE



ACCURACY
ASME B 40.1 Grade 1A (±1% of span)

DIAL SIZE
4½"

CASE MATERIAL
Stainless steel

TUBE MATERIAL
316 stainless steel

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower

RANGES
1000/20,000 psi – ½ NPT, ¼ NPT

Uniquely designed to meet rugged oil field applications.

1038, 1339 3½, 4½" DUPLEX GAUGE



1038 GAUGE SHOWN

ACCURACY
ASME B 40.1 Grade A (±2-1-2% of span)

DIAL SIZE
3½, 4½"

CASE MATERIAL
Aluminum, cast iron

TUBE MATERIAL
Bronze

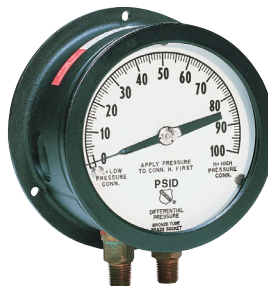
SENSING ELEMENT
Bourdon tube

CONNECTION
Lower/back

RANGES
1038A – 3½, 4½" – ¼ NPT 30/1000 psi
1339A – 4½" – ¼ NPT 30/1000 psi
Back conn. only

Uniquely designed to indicate two related pressures on the same dial.

1125, 1125A 4½" DIFFERENTIAL GAUGE



ACCURACY
ASME B 40.1 Grade A (±2-1-2% of span)

DIAL SIZE
4½, 6"

CASE MATERIAL
Aluminum

TUBE MATERIAL
Bronze

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower/back

RANGES
1125 – 4½, 6"⁽¹⁾ – ¼ NPT 20/1000 psi
1125A – 4½, 6"⁽¹⁾ – ¼ NPT 10/0/10 psi-
500/0/500 psi

⁽¹⁾ Lower connect only

Application include fills, monitors, flow, leak and level measurements.

1127, 1128 4½, 6" DIFFERENTIAL GAUGES



ACCURACY
ASME B 40.1 Grade A (±2-1-2% of span)

DIAL SIZE
4½, 6"

CASE MATERIAL
Aluminum

TUBE MATERIAL
316 stainless steel

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower

RANGES
1127 – 4½, 6" – ¼ NPT 10/1000 psi
1128 – 4½, 6" – ¼ NPT 10/0/00 psi-
400/0/400 psi

Application include fills, monitors, flow, leak and level measurements.

Differential Gauges

**1130 2", 2½", 3½", 4", 4½", 6"
DIFFERENTIAL GAUGE**



**EXPLOSION PROOF
SWITCHES AVAILABLE**

ACCURACY
±2% ascending

DIAL SIZE
2", 2½", 3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, brass, stainless steel

SENSING ELEMENT
Piston

CONNECTION
In-line, lower, back

RANGES
0-5 psid to 150 psid

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential with migration.

**1131 2", 2½", 3½", 4", 4½", 6"
DIFFERENTIAL GAUGE**



**EXPLOSION PROOF
SWITCHES AVAILABLE**

ACCURACY
±2% ascending

DIAL SIZE
2", 2½", 3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, brass, stainless steel

SENSING ELEMENT
Rolling diaphragm

CONNECTION
In-line, lower, back

RANGES
0-5 psid to 100 psid

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.

**1132 2½", 3½", 4", 4½", 6"
DIFFERENTIAL GAUGE**



**EXPLOSION PROOF
SWITCHES AVAILABLE**

ACCURACY
±2% ascending

DIAL SIZE
2½", 3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, brass, stainless steel

SENSING ELEMENT
Convuluted diaphragm

CONNECTION
In-line, lower, back

RANGES
0-1 psid to 60 psid
(including inches of water ranges)

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.

**1133 3½", 4", 4½", 6"
DIFFERENTIAL GAUGES**



ACCURACY
±2% ascending

DIAL SIZE
3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, stainless steel

SENSING ELEMENT
Convuluted diaphragm

CONNECTION
In-line, lower, back

RANGES
0-1 IWD to 25 IWD

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.

Differential Gauges

Stainless Steel Case & Industrial Gauges

1134 4½" DIFFERENTIAL GAUGE	5503 100mm & 160mm DIFFERENTIAL GAUGE	5509 100mm & 160mm DIFFERENTIAL GAUGE	1150H 4½" REID VAPOR GAUGE
			
ACCURACY ±2% ascending	ACCURACY ±1.6% of span	ACCURACY ±2.5% of span	ACCURACY ASME B 40.1 Grade 2A (±0.5% of span)
DIAL SIZE 4½"	DIAL SIZE 100mm, 160mm	DIAL SIZE 100mm, 160mm	DIAL SIZE 4½"
CASE MATERIAL Stainless steel	CASE MATERIAL Stainless steel	CASE MATERIAL Stainless steel	CASE MATERIAL Aluminum
BODY MATERIAL Glass filled nylon	SENSING MATERIAL 316 stainless steel	SENSING MATERIAL 316 stainless steel	TUBE MATERIAL 316 stainless steel
SENSING ELEMENT Convolute diaphragm	SENSING ELEMENT Diaphragm	SENSING ELEMENT Diaphragm	SENSING ELEMENT Bourdon tube
CONNECTION Dual (In-line or back)	CONNECTION Lower	CONNECTION Lower	CONNECTION ¼ NPT lower
RANGES 0-0.6 IWD to 60 IWD	RANGES 0-16 IWD to 400 psid	RANGES 0-10 IWD to 400 psid	RANGES 15/600 psi
Applications include fume hoods, air handlers, filter monitoring, flow and level. Inches of water with no migration.	Applications include filter monitoring, flow, leak and level measurement requiring high recovery, all stainless steel.	Applications include filter monitoring, flow, leak and level measurement requiring high recovery, all stainless steel.	Uniquely designed for testing petroleum products with the Reid vapor process.

Stainless Steel Case & Industrial Gauges

1122 2½" GAUGE	1187, 1188, 1189 LP BELLOWS GAUGES	1490 2½", 3½" LP DIAPHRAGM GAUGE	1495 2½", 3½" LP RECEIVER GAUGE
			
ACCURACY ASME B 40.1 Grade A (±2-1-2% of span)	ACCURACY ASME B 40.1 Grade A (±2-1-2% of span)	ACCURACY ASME B 40.1 Grade A (±2-1-2% of span)	ACCURACY ASME B 40.1 Grade A (±2-1-2% of span)
DIAL SIZE 2½"	DIAL SIZE 1187 ⁽¹⁾ – 4½" 1188 – 4½" 1189 ⁽²⁾ – 4½", 6"	DIAL SIZE 2½", 3½"	DIAL SIZE 2½", 3½"
CASE MATERIAL Stainless steel	CASE MATERIAL Aluminum, phenolic	CASE MATERIAL Polysulfone	CASE MATERIAL Polysulfone
TUBE MATERIAL Stainless steel	TUBE MATERIAL Brass, 316 stainless steel, Monel	WETTED MATERIAL Copper, Brass, Polysulfone, RTV, Silicone	WETTED MATERIAL Copper, Brass, Polysulfone, RTV, Silicone
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bellows	SENSING ELEMENT Diaphragm	SENSING ELEMENT Diaphragm
CONNECTION ¼ NPT lower	CONNECTION 1187 – ¼, ½ NPT back 1188 – ¼, ½ NPT lower or back 1189 – ¼, ½ NPT lower	CONNECTION ⅛ NPT lower or back ¼ NPT lower or back Hose barb	CONNECTION ⅛ NPT lower or back ¼ NPT lower or back Hose barb
RANGES 15/1000 psi	RANGES 10 in.H ₂ O to 10 psi including vacuum and compound	RANGES 0/10 in.H ₂ O to 0/15 psi including vacuum and compound	RANGES 0-100%, 0-10 sq rt 0/10 sq rt/0-100 linear
Applications include compressors, pumps and turbines.	Low pressure monitoring for general industrial applications on air, liquids or gases.	Low pressure monitoring of gases including ovens, burners or material applications.	Low pressure monitoring of pneumatic or air handling systems requiring printout or square root readings.

Digital Industrial Gauges

TYPES 2074, 2174, 2274 INDUSTRIAL DIGITAL GAUGE



ACCURACY:
±0.25% of span

CASE SIZE
3", 4 1/2"

CASE MATERIAL
(3") 300 series stainless steel
(4 1/2") fiberglass reinforced thermoplastic
(4 1/2") black painted aluminum

WETTED MATERIALS
17-4 PH stainless steel sensor;
316 stainless steel socket

SOCKET SIZE
1/4 NPT, 1/2 NPT (4 1/2" case only)
(others on application)

CONNECTION
Lower (6 o'clock), 3, 9 and 12 o'clock

RANGES
Vac., 15 to 20,000 psi including compound

POWER SOURCE
Battery
(3") Two AA alkaline batteries
(4 1/2") Two C alkaline batteries
Loop powered 4-20mA
Line powered, (12-36 Vdc, 1 amp)

BATTERY LIFE
(3") >1000 hrs.
(4 1/2") >3600 hrs.

OPERATING TEMPERATURE
14/140°F (-10/60°C)

STORAGE TEMPERATURE
-4/158°F (-20/70°C)

AGENCY APPROVALS
CE, EN 50082-1 (1997), FM, CSA,
CENELEC-ATEX 100

Available with optional (1) or (2) SPDT switches and 4-20mA output, this gauge is ideal for many industrial applications. This product eliminates the need for unnecessary instrument T's, when switches and/or 40-20mA output is a requirement.

Sanitary Gauges

X1032 XMITR™ SANITARY TRANSMITTER GAUGE



ACCURACY
Electrical output is 1% BFSI including non-linearity, hysteresis and non-repeatability. Gauge is ASME B40.1. 1.5% F.S. 100 psi and above, 2% below 100 psi

DIAL SIZE
2 1/2", 3 1/2"

CASE MATERIAL/INGRESS PROTECTION
Stainless steel, IP50 (std.). Option IP65 (XLJ)

WETTED PARTS
Electro polished 12 to 20 RA surface finish
316L stainless steel

SENSING ELEMENT
Bourdon tube with patented transducer technology

MOUNTING CONNECTION
Lower (1 1/2" and 2" Tri-Clover)

RANGES
Compound to 1000 psi

Clean-in-place (CIP)
Steam-in-place (SIP)
3A sanitary standard (3A)

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clover type fittings and highly polished stainless steel surfaces.

TYPE 1032 FRACTIONAL SANITARY GAUGE



ACCURACY
±3% upscale accuracy; up to ±5% downscale accuracy

DIAL SIZE
2"

CASE & RING MATERIAL
300 series stainless steel

TUBE & SOCKET MATERIAL
316 stainless steel

WETTED PARTS
Electropolished 12 to 20RA surface finish
(stainless steel)

MOUNTING CONNECTION
Lower (3/4" Tri-Clover)

RANGES
30# thru 600#, including compound
Meets EN 10204 : 2004 3.1 requirement for material traceability; documents provided as standard

Sanitary pharmaceutical, biotech or food applications requiring a compact 3/4 Tri-Clover fitting with highly polished stainless steel surfaces.

TYPE 1032 SANITARY GAUGE



ACCURACY
2 1/2", 3 1/2", 4 1/2" - ±1.5% F.S. for pressure ranges 100 psi and above. ±2.0% F.S. for vacuum, compound and ranges below 100 psi

DIAL SIZE
2 1/2", 3 1/2", 4 1/2"

CASE & RING MATERIAL
300 series stainless steel

TUBE & SOCKET MATERIAL
316 stainless steel

WETTED PARTS
Electropolished 12 to 20 RA surface finish
(stainless steel)

MOUNTING CONNECTION
Lower, back (1 1/2" or 2" Tri-Clover)

RANGES
15# thru 1000#, including compound and vacuum

Meets EN 10204 : 2004 3.1 requirement for material traceability; documents provided as standard

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clover type fittings and highly polished stainless steel surfaces.

Sanitary Gauges

Commercial Gauges

TYPE 1036 SANITARY GAUGE
with TYPE 1037 SANITARY
INSTRUMENT FITTING

Clamp not provided. User installed.

ACCURACY

±1.5% F.S. for pressure ranges 100 psi and above. ±2.0% F.S. for vacuum, compound and ranges below 100 psi

DIAL SIZE

3 1/2"

CASE & RING MATERIAL

300 series stainless steel

TUBE & SOCKET MATERIAL

316 stainless steel

WETTED PARTS

Electropolished 12 to 20 RA surface finish (stainless steel)

MOUNTING CONNECTION

Lower, back (1 1/2" Tri-Clover)

RANGES

15# thru 1000#, including compound and vacuum

TYPE 1037 INSTRUMENT FITTING**CONSTRUCTION**

316 L stainless steel

WETTED PARTS

Electropolished 12 to 20RA surface finish

MOUNTING CONNECTION

(1 1/2" thru 2" Tri-Clover)

HEAT NUMBER

Stamped on fitting

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clover type fittings with zero deadleg and highly polished stainless steel surfaces.

TYPE D1005PS GENERAL
PURPOSE DIGITAL GAUGE

*Protective Boot Optional

ACCURACY

±0.5% of span

CASE SIZE

2 1/2"

CASE MATERIAL

Noryl®

WETTED MATERIALS

17-4 PH stainless steel sensor;
316 stainless steel socket

SOCKET SIZE

1/4 NPT

CONNECTION

Lower (6 o'clock), 3, 9 and 12 o'clock

RANGES

Vac. thru 19,999, including compound

POWER SOURCE

Two AAA alkaline batteries

BATTERY LIFE

1000 hrs.

OPERATING TEMPERATURE

14/140°F (-10/60°C)

STORAGE TEMPERATURE

-4/158°F (-20/70°C)

AGENCY APPROVALS

CE, EN 61326 (1998)
CE, EN 61326 Annex A (heavy industrial)

This product is an excellent choice for a wide variety of pressure measurement applications. When compared to mechanical gauges the D1005PS offers overall enhanced value.

TYPE X1005, TYPE X2001
XMITR™ TRANSMITTER GAUGE

LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS

ACCURACY

Electrical output is 1% BFSL including non-linearity, hysteresis and non-repeatability. Gauge is ASME B40.100 Grade B (±3-2-3% of span)

DIAL SIZE

Type X1005 2"
Type X2001 2 1/2", 3 1/2"

CASE MATERIAL/INGRESS PROTECTION

Stainless steel
Type 1005, IP54
Type 2001, IP43 standard, IP54 (XLJ)

WETTED MATERIAL

Bronze/brass

SENSING ELEMENT

Bourdon tube with patented transducer technology

CONNECTION

1/8 and 1/4 NPT, G 1/4 lower

RANGES

Compound to 600 psi

2 Instruments in 1. Breakthrough functionality and value. Stainless steel case, 4-20mA and voltage outputs, cable or Hirschmann conn. CE heavy industrial. Per EN61326, 1998 ANNEX A

TYPE 1005P/1005/1005S

**ACCURACY**

ASME B 40.100 Grade B (±3-2-3% of span)

DIAL SIZE

1 1/2", 2", 2 1/2", 3 1/2"
(4 1/2" available with steel case/ring and plastic window, Type 1000)

CASE MATERIAL

1005P – ABS, black
1005 – Black painted steel
1005S – Stainless steel (1 1/2" & 2" only)
Optional, color other than black, vent hole, panel mount sleeve for 1005P back connect

WETTED MATERIAL

Bronze/brass. *Optional sockets, nickel plated, Teflon taped, top or side connections, throttle plugs*

SENSING ELEMENT

Bourdon tube; Ashcroft patented PowerFlex™ movement

CONNECTION

1/8 and 1/4 NPT back and lower. (1 1/2" available in 1/8 NPT lower and back only; 4 1/2" Type 1000 available in 1/4 NPT lower only)

RANGES

Vac.-6000 psi and compound*





*All ranges listed may not be available in all sizes/connections. Please consult individual spec sheets.

Applications include compressors, filter regulators, medical equipment, automotive diagnostic, beverage dispensing, industrial machinery and a variety of other applications.

Commercial Gauges

TYPE 1001T PANEL GAUGE	TYPE 1008A/AL GENERAL SERVICE GAUGE	TYPE 3005/3005P HYDRAULIC GAUGE	TYPE 1005M, XRG AGRICULTURAL AMMONIA
			
ACCURACY ASME B 40.100 Grade B ($\pm 3-2-3\%$ of span)	ACCURACY ASME B 40.100 Grade B ($\pm 3-2-3\%$ of span)	ACCURACY ASME B 40.100 Grade B ($\pm 3-2-3\%$ of span)	ACCURACY ASME B 40.100 Grade B ($\pm 3-2-3\%$ of span)
DIAL SIZE 1½", 2", 2½", 3½"	DIAL SIZE 63mm (2½"), 100mm (4")	DIAL SIZE 63mm (2½")	DIAL SIZE 2½"
CASE MATERIAL Black painted steel	CASE & RING MATERIAL 304 stainless steel, dry, liquid filled or field fillable	CASE MATERIAL 3005 – 304 stainless steel, dry, liquid filled or field fillable 3005P – Black ABS dry or glycerine filled	CASE MATERIAL Black painted steel <i>Optional, stainless clad aluminum (Type 1005SM)</i>
WETTED MATERIAL Bronze/brass.	WETTED MATERIAL Bronze/brass	WETTED MATERIAL Bronze/brass	WETTED MATERIAL 316 stainless steel/steel
SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement
CONNECTION ½ NPT back, ¼ NPT back (1½" not available in ¼ NPT)	CONNECTION ¼ NPT lower and back <i>Optional, metric and SAE connection</i>	CONNECTION 3005 – ¼ NPT lower and back 3005P – ¼ NPT lower <i>Optional, metric and SAE connection</i>	CONNECTION ¼ NPT lower <i>Optional, 0.020" orifice stainless steel throttle plug</i>
RANGES Vac.-6000 psi and compound*	RANGES Vac.-15,000 psi and compound	RANGES Vac.-15,000 psi and compound	RANGES 0/60 psi, 0/150 psi, 0/400 psi
Note: For panel mount refrigeration gauge (recovery, recycling) specify 1001T, XRR gauge *All ranges may not be available in all ranges/connections. Please consult individual spec sheets.			
Applications include instrument panels, air-conditioning equipment, air and gas compressors, machine tools and a variety of other applications.	Applications include hydraulic systems, machine tools, pressure washers/sprayers and a variety of other applications.	Applications include hydraulic systems, machine tools, pressure washers/sprayers, compressors, irrigation equipment and a variety of other applications.	This product was designed to withstand rugged agricultural applications. Features include stainless tube and socket, in addition to glass window, necessary for anhydrous ammonia applications.

Commercial Gauges

TYPE 1005M, XR5 REFRIGERANT AMMONIA	TYPE 1005P, XUL SPRINKLER SERVICE GAUGE	TYPE 1007P, XOR REFRIGERATION MANIFOLD	TYPE 2071 CONTRACTOR GAUGE
			
<p>ACCURACY ASME B 40.100 Grade B (± 3-2-3% of span)</p> <p>DIAL SIZE 2½", 3½"</p> <p>CASE MATERIAL Black painted steel <i>Optional, ABS (Type 1005PM); stainless clad aluminum (Type 1005SM)</i></p> <p>WETTED MATERIAL 316 stainless steel/steel</p> <p>SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement</p> <p>CONNECTION ¼ NPT lower</p> <p>RANGES 30 in.Hg Vac/0/150 psi, 30 in.Hg Vac/0/300 psi with equivalent ammonia temperature scales</p>	<p>ACCURACY ASME B 40.100 Grade B (± 3-2-3% of span)</p> <p>DIAL SIZE 3½"</p> <p>CASE MATERIAL ABS/polycarbonate blend</p> <p>WETTED MATERIAL Bronze/brass</p> <p>SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement</p> <p>CONNECTION ¼ NPT lower</p> <p>RANGES 0-300 psi (water), 0-80 psi retard to 250 psi (air)</p>	<p>ACCURACY $\pm 1\%$ at zero, $\pm 2\%$ three fourths of scale, $\pm 5\%$ last fourth of scale</p> <p>DIAL SIZE 2½"</p> <p>CASE MATERIAL ABS, red (high pressure) ABS, blue (low pressure) <i>Optional, black, ABS</i></p> <p>WETTED MATERIAL Bronze/brass</p> <p>SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement with Flutter Guard™</p> <p>CONNECTION ⅛ NPT lower</p> <p>RANGES Vac/0/120 psi retard to 250 psi, 0/500 psi Vac/0/500 psi retard to 800 psi, 0/800 psi <i>Optional, alternate refrigerant ranges</i></p> <p>Note: for panel mount refrigeration gauges (recovery, recycling) see Type 1001T gauge. Specify 1001T, XRR gauge</p>	<p>ACCURACY ASME B 40.100 Grade A (± 2-1-2% of span)</p> <p>DIAL SIZE 4½"</p> <p>CASE & RING MATERIAL Aluminum with back-flange case, painted black; chrome plated ring</p> <p>WETTED MATERIAL Bronze/brass soldered, siphon required for steam service</p> <p>SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement</p> <p>CONNECTION ¼ NPT lower <i>Optional, throttle plugs</i></p> <p>RANGES Vac-600 psi and compound</p>
<p>This product was designed to meet the requirements of refrigerant ammonia applications. Features include enhanced leak integrity plus dual scale (psi/temp) dial necessary for these applications.</p>	<p>These gauges are UL-393 listed, UL of Canada listed and FM approved for fire protection sprinkler service for either water or air systems.</p>	<p>Typical applications include checking or servicing refrigerant levels in automotive, residential or industrial air-conditioning units; refrigerant recovery and reclamation units; refrigerant transport systems and large scale air-conditioning and chilling equipment.</p>	<p>These gauges are designed to meet the needs of heating, ventilating, plumbing and air-conditioning contractors.</p>

Commercial Gauges






TYPE 40DDG/50DDG DIRECT DRIVE GAUGE	TYPE 23DDG MINIGAUGE® PRESSURE GAUGE	TYPE 12DDG/15DDG DIRECT DRIVE GAUGE	TYPE MFX FIRE EXTINGUISHER GAUGE
			
ACCURACY ASME B 40.100 Grade B (± 3 -2-3% of span)	ACCURACY $\pm 5\%$ of span	ACCURACY Standard: $\pm 2\%$ at setpoint (setpoint is normally 50% of range) UL listed: $\pm 3.5\%$ of span of middle three-fifths of scale	ACCURACY Conforms to applicable UL specs*
DIAL SIZE 40mm (1 1/2") or 50mm (2")	DIAL SIZE 23mm (0.906")	DIAL SIZE 1 1/4", 1 1/2"	DIAL SIZE 1 1/4", 1 1/2"
CASE MATERIAL ABS polycarbonate blend, black	CASE MATERIAL ABS blend, black	CASE MATERIAL Stainless steel, sealed	CASE MATERIAL Stainless steel, sealed
WETTED MATERIAL Beryllium copper coil, silicone dampened Integral ABS polycarbonate blend socket <i>Optional, 1/8 NPT or 1/4 NPT brass, throttle plug</i>	WETTED MATERIAL Beryllium copper tube/brass socket	WETTED MATERIAL Beryllium copper tube/brass socket	WETTED MATERIAL Beryllium copper/brass
SENSING ELEMENT Spiral wound Bourdon tube	SENSING ELEMENT Spiral wound Bourdon tube	SENSING ELEMENT Spiral wound Bourdon tube <i>Optional, silicone dampened tube, silicone-filled tube</i>	SENSING ELEMENT Spiral wound Bourdon tube <i>Optional, silicone-filled tube</i> <i>Spiral tube, beryllium copper</i>
CONNECTION 40mm – 1/8 NPT back 50mm – 1/8 NPT or 1/4 NPT back	CONNECTION 1/8 NPT back with 15mm (9/16") wrench flats. <i>Optional, throttle plugs, PT 1/8" (JIS) and R 1/8" (BSPT) threads</i>	CONNECTION 1/8 NPT back, safety plug in 1500 psi-4000 psi ranges. <i>Optional, 1/4 NPT back, throttle plugs</i>	CONNECTION 1/8 NPT back <i>Optional, special socket configurations</i>
RANGES 0-60 psi (180° arc); 0-100 psi, 0-160 psi, 0-200 psi, 0-300 psi, 0-400 psi (235° arc) For optimum gauge life, select a gauge with a full scale pressure range of approximately twice the maximum excursion pressure	RANGES 60 psi-100 psi (180° dial arc) 160 psi-300 psi (235° dial arc)	RANGES 0/60 psi (180° arc) 0/100 psi, 0/160 psi, 0/200 psi, 0/300 psi, (235° arc) 0/700 psi (200° arc) 0/1,200 psi (180° arc) 0/1,500 psi 0/2,000 psi, 0/3,000 psi, 0/4,000 psi (165° arc)	RANGES Maximum scale pressure from 200 psi to 1200 psi
<i>Consult factory for high cycle life applications</i>	Consult factory for high cycle life applications	Consult factory for high cycle life applications	*UL 299 UL 626 UL 1058 UL 1093
Typical applications include filter regulator lubricators, portable compressors, air tanks, industrial machinery and a variety of other applications. Excellent shock resistance.	These gauges are perfect for a multitude of applications where a 1 1/2" conventional size gauge is too large, such as mini-FRL's, pneumatic stack valves, air compressors and accessories.	Applications include pumps, air compressors, portable tire inflators, portable oxygen equipment, self-contained breathing apparatus, portable industrial gas cylinders and a variety of other applications.	These products are designed for use on portable fire extinguishers and systems.

Diaphragm Seals/ Instrument Isolators

Specification Matrix

Ashcroft Diaphragm Seals &
Pressure Instrument Isolators

• = AVAILABLE

							
Process Connection Type			Threaded	Threaded w/Flushing Connection	Raised Face Flange	Raised Face Flange w/Flushing Connection	In-line Threaded
Model No.	Code		100/200/300 ⁽¹⁾	101/201/301 ⁽¹⁾	102/202/302 ⁽¹⁾	103/203/303 ⁽¹⁾	104/204/304 ⁽¹⁾
Process Connection Size (NPT)							
	Female	Male					
1/4	25	02	•	•			•
1/2	50	04	•	•	•	•	•
3/4	75	06	•	•	•	•	•
1	10	08	•	•	•	•	
1 1/2	15				•	•	
2	20				•	•	
3	30				•	•	
4	40						
6	60						
8	80						
Diaphragm Materials							
316L stainless steel	S		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
304L stainless steel	C		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Monel 400	P		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Nickel	N		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Carpenter 20	D		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Tantalum	U		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Hastelloy B	G		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Hastelloy C 22	J		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Hastelloy C 276	H		100 & 200	101 & 201	102 & 202	103 & 203	104 & 204
Teflon	T		200 & 300	201 & 301	202	203	204 & 304
Viton	Y		200 & 300	201 & 301	202	203	204 & 304
Kalrez	K		200 & 300	201 & 301	302	303	304
Titanium	TI		200	201	202	203	204
Halar Coated Monel	PH		100	101	102	103	104
Bottom Housing Materials							
Steel	B		•	•	•	•	•
304L stainless steel	CL		•	•	•	•	•
316L stainless steel	SL		•	•	•	•	•
Hastelloy B	G		•	•	•	•	•
Hastelloy C 22	J		•	•	•	•	•
Hastelloy C 276	H		•	•	•	•	•
Carpenter 20	D		•	•	•	•	•
Monel 400	M		•	•	•	•	•
Inconel 600	W		•	•	•	•	•
Nickel	N		•	•	•	•	•
PVC	V		(Socket Weld or 1/4-1/2 NPT)		1, 1 1/2		
Tantalum Clad SS	SU				•		
Halar® Coated Monel	SH				•		
Teflon	T				1, 1 1/2, 2		
Kynar	KY		Only 1/4 or 1/2 NPT		1, 1 1/2, 2		
Titanium	TI		•	•	•	•	•
Pressure Ratings							
500 psi			Viton or Kalrez diaph. only	Viton or Kalrez diaph. only			Viton or Kalrez diaph. only
2500 psi			Metal & Teflon® diaph.	•			Metal & Teflon® diaph.
5000 psi	HP		100 & 200 metal				
7500 psi							
15000 psi	HP						
Flange Class							
150, 300, 600, 900 or 1500					Kalrez, Teflon, Viton, Kynar 150 only	Kalrez, Teflon, Viton, Kynar 150 only	
Instrument Connection Size							
1/4	02T		•	•	•	•	•
1/2	04T		•	•	•	•	•
Filling Fluid							
Glycerin	CG		•	•	•	•	•
Silicone (direct to 10" capillary)	CK		•	•	•	•	•
Silicone (over 10" capillary)	EJ		•	•	•	•	•
Halocarbon	CF		•	•	•	•	•
Syltherm	HA		•	•	•	•	•

⁽¹⁾ Type 300 series not available with metallic diaphragms

Consult factory for guidance in product selection.
Phone 203-378-8281, visit our web site
www.ashcroft.com or email: info@ashcroft.com.

ASHCROFT®

Diaphragm Seals/ Instrument Isolators

Specification Matrix

Ashcroft Diaphragm Seals &
Pressure Instrument Isolators

• = AVAILABLE



Process Connection Type			Saddle	In-line Flanged	In-line Socket Weld	In-line Butt Weld	Male/Female Threaded Mini (*Flushing Conn.)
Model No. Code			105/205	106/206	107/207	108	310/315*
Process Connection Size (NPT)	Female	Male					Female Male
1/4	25	02			•	•	• •
1/2	50	04		•	•	•	• •
3/4	75	06		•	•	•	• •
1	10	08		•	•	•	• •
1 1/2	15			•	•	•	
2	20			•	•	•	
3	30		3"	•			
4	40		4" and larger				
6	60			•			
8	80			•			
Diaphragm Materials							
316L stainless steel	S		•	•	•	•	•
304L stainless steel	C		•	•	•	•	
Monel 400	P		•	•	•	•	•
Nickel	N		•	•	•	•	
Carpenter 20	D		•	•	•	•	
Tantalum	U		•	•	•	•	•
Hastelloy B	G		•	•	•	•	
Hastelloy C 22	J		•	•	•	•	
Hastelloy C 276	H		•	•	•	•	•
Teflon	T		205	206	207	208	
Viton	Y		205	206	207	208	
Kalrez	K		205	206	207	208	
Titanium	TI		205	206	207	208	
Halar Coated Monel	PH		105	106	107	108	
Bottom Housing Materials							
Steel	B		•	•	•	•	
304L stainless steel	CL		•	•	•	•	
316L stainless steel	SL		•	•	•	•	•
Hastelloy B	G		•	•	•	•	
Hastelloy C 22	J		•	•	•	•	
Hastelloy C 276	H		•	•	•	•	•
Carpenter 20	D		•	•	•	•	
Monel 400	M		•	•	•	•	•
Inconel 600	W		•	•	•	•	
Nickel	N		•	•	•	•	
PVC	V						
Tantalum Clad SS	SU						
Halar® Coated Monel	SH						
Teflon	T						
Kynar	KY						
Titanium	TI		•		•	•	
Pressure Ratings							
500 psi			Viton or Kalrez diaph. only		Viton or Kalrez diaph. only	Viton or Kalrez diaph. only	
2500 psi			Metal & Teflon® diaph.		Metal & Teflon® diaph.		
5000 psi	HP						
7500 psi							
15000 psi	HP						
Flange Class							
150, 300, 600, 900 or 1500				150 & 300			
Instrument Connection Size							
1/4	02T		•	•	•	•	•
1/2	04T		•	•	•	•	•
Filling Fluid							
Glycerin	CG		•	•	•	•	•
Silicone (direct to 10" capillary)	CK		•	•	•	•	•
Silicone (over 10" capillary)	EJ		•	•	•	•	•
Halocarbon	CF		•	•	•	•	•
Syltherm	HA		•	•	•	•	•

Diaphragm Seals/ Instrument Isolators

Specification Matrix

Ashcroft Diaphragm Seals &
Pressure Instrument Isolators

• = AVAILABLE



Process Connection Type			Female & Male Threaded		Female Threaded (w/Flushing Conn.)	Quick Connect	1" Male Flush Mini	Threaded (*Flushing Conn.)
Model No.	Code		311		312	320/321	330	400/401*
Process Connection Size (NPT)	Female	Male	Female	Male				
1/4	25	02	•	•	•	•		•
1/2	50	04	•	•	•	•		•
3/4	75	06		•	•			•
1	10	08		•	•		•	•
1 1/2	15					•		
2	20					•		
3	30							
4	40							
6	60							
8	80							
Diaphragm Materials								
316L stainless steel	S		•		•	•	•	•
304L stainless steel	C							
Monel 400	P							•
Nickel	N							
Carpenter 20	D							
Tantalum	U		•		•			•
Hastelloy B	G							•
Hastelloy C 22	J							•
Hastelloy C 276	H		•		•			•
Teflon	T							
Viton	Y							
Kalrez	K							
Titanium	TI							•
Halar Coated Monel	PH							
Bottom Housing Materials								
Steel	B							
304L stainless steel	CL							
316L stainless steel	SL		•		•	•	•	•
Hastelloy B	G							
Hastelloy C 22	J							•
Hastelloy C 276	H		•		•			•
Carpenter 20	D							
Monel 400	M							•
Inconel 600	W							
Nickel	N							
PVC	V							
Tantalum Clad SS	SU							
Halar® Coated Monel	SH							
Teflon	T							
Kynar	KY							
Titanium	TI							
Pressure Ratings								
500 psi								
2500 psi			1000		1000	•		
5000 psi	HP							
7500 psi								4400
15000 psi	HP							9000
Flange Class								
150, 300, 600, 900 or 1500								
Instrument Connection Size								
1/4	02T		•		•	•	•	•
1/2	04T		•		•	2" only	•	•
Filling Fluid								
Glycerin	CG		•		•	•	•	•
Silicone (direct to 10' capillary)	CK		•		•	•	•	•
Silicone (over 10' capillary)	EJ		•		•	•	•	•
Halocarbon	CF		•		•	•	•	•
Syltherm	HA		•		•	•	•	•

Diaphragm Seals/ Instrument Isolators

Specification Matrix

Ashcroft Diaphragm Seals &
Pressure Instrument Isolators

• = AVAILABLE



Process Connection Type			Raised Face Flange (*Flushing Conn.)	Threaded (*Flushing Conn.)	Low Pressure Flanged (* w/Flushing Conn.)	Low Pressure Threaded (* w/Flushing Conn.)	Isolation Ring	
Model No.		Code	402/403*	500/501*	702/703*	740/741*	80/81/85/86	
Process Connection Size (NPT)		Female	Male				Pipe Size	
¼		25	02				•	1.0" 14.0"
½		50	04	•	•	•	•	1.5" 16.0"
¾		75	06	•	•	•	•	2.0" 18.0"
1		10	08	•	•	•	•	3.0" 20.0"
1½		15	•		•			4.0"
2		20	•		•			5.0"
3		30	•		•			6.0"
4		40						8.0"
6		60						10.0"
8		80						12.0"
Diaphragm Materials			Liner Materials / Code					
316L stainless steel		S	•	•	•	•	Buna N (E)	
304L stainless steel		C					Teflon (T)	
Monel 400		P	•	•	•	•	Viton (Y)	
Nickel		N					Nordell EPDM (EP)	
Carpenter 20		D					White Neoprene (CR)	
Tantalum		U	•	•	•	•	Natural Rubber (NP)	
Hastelloy B		G		•	•	•		
Hastelloy C 22		J	•	•				
Hastelloy C 276		H	•	•	•	•		
Teflon		T						
Viton		Y						
Kalrez		K						
Titanium		TI		•	•	•		
Halar Coated Monel		PH						
Bottom Housing Materials			Ass'y Flanges / Code					
Steel		B		•		•	Carbon Steel (B)	
304L stainless steel		CL					316 SS (S)	
316L stainless steel		SL	•	•	•	•	CPVC (CP)	
Hastelloy B		G			•	•	Teflon Enveloped (CT)	
Hastelloy C 22		J	•	•			Polypropylene (PP)	
Hastelloy C 276		H	•	•	•	•		
Carpenter 20		D			•	•		
Monel 400		M	•	•	•	•		
Inconel 600		W						
Nickel		N						
PVC		V						
Tantalum Clad SS		SU						
Halar® Coated Monel		SH						
Teflon		T						
Kynar		KY						
Titanium		TI		•	•	•		
Pressure Ratings			Instrument Conn / Code					
500 psi				•	750	750	1/4 NPT (02T)	
2500 psi							1/2 NPT (04T)	
5000 psi		HP						
7500 psi								
15000 psi		HP						
Flange Class								
150, 300, 600, 900 or 1500			•		150-600			
Instrument Connection Size								
¼		02T	•	•	•	•		
½		04T	•	•	•	•		
Filling Fluid								
Glycerin		CG	•	•	•	•	•	
Silicone (direct to 10´ capillary)		CK	•	•	•	•	•	
Silicone (over 10´ capillary)		EJ	•	•	•	•	•	
Halocarbon		CF	•	•	•	•	•	
Syltherm		HA	•	•	•	•	•	

Quick Guide Transducers & Transmitters

TYPE GC51 RANGEABLE PRESSURE TRANSMITTER



REFERENCE CONDITION: 23°C ±2° (73°F)

ACCURACY: ±0.25% FS (URL)
(Accuracy includes the effects of linearity, hysteresis, and repeatability)
Stability: ±0.25% FS/year
Response Time: 30msec (user adjustable)
Output Resolution: 0.1% FS (URL)
Zero Offset: ≤ ±0.1% FS/year
Standard Ranges (Compound):
-15 to 15psi, -15 to 30psi, -15 to 50psi
Standard Ranges (Gauge):
0-50psi, 100psi, 150psi, 300psi, 500psi, 1000psi, 1500psi, 3000psi, 5000psi, 7500psi

Temperature Limits:
Storage: -20 to 70°C (-4 to 158°F)
Operating: -10 to 60°C (14 to 140°F)
Compensated: -10 to 60°C (14 to 140°F)
Temperature Effects (-10 to 60°C):
±0.02% FS (URL)/°C from 23°C reference

Overpressure (F.S.):	Proof	Burst
1500psi and below	200%	500%
3000, 5000psi	150%	300%
7500psi	120%	150%

Vibration: 5g's 150Hz
Shock: 10g's 16ms

Output Signal: 4-20mA (2 Wire)
Supply Voltage: 12-32Vdc
Rangeability / Adjustment⁽¹⁾:
Zero -10% to +110% FS
Span -10% to +110% FS
⁽¹⁾ Accuracy and output resolution based upon full scale (URL) value
Insulation Resistance: 50Vdc (>100Mohms)
CE Compliance: EN 613261 1997, A1/1998, A2/2001 (Heavy Industrial)

Pressure Connection: 1/4 Female NPT
Enclosure: Aluminum
Rating: IP65 / NEMA 4X
Electrical Connection (Options):
- 1/2 Female NPT Conduit
- Cable Gland (Cable Diameters 0.35" to 0.47")
Weight: Approx. 1.0 lb
Mounting: Mounting Bracket included
Media: Fluids and gases compatible with 316SS and pH17-4 stainless steel

TYPE GC55 WET/WET DIFFERENTIAL PRESSURE TRANSDUCER



ACCURACY: ± 0.5% FS
(Accuracy includes the effects of linearity, hysteresis and repeatability)
Analog Output (4-20mA or 1-5Vdc):
Response Time: 20msec
Output Resolution: 0.2% FS
Stability: ±0.5%/yr
Pressure Switch Output:
Type: TTL/CMOS up to 40Vdc/200mA
Setting Accuracy: ± 1.0% FS
Number of Contacts: 2
Response Time: 20msec-2.0sec (by user)
Hysteresis: Variable (by user)
Display:
Type: 3 1/2 digits
Accuracy: ± 1.0% FS
Standard Ranges (Differential):
75psi 250psi
100psi 300psi
150psi

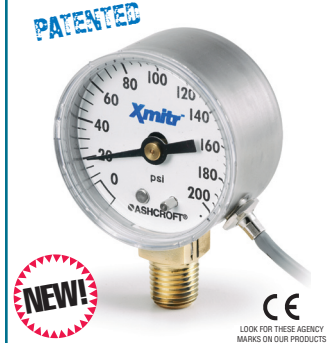
Temperature Limits:
Storage: -20 to 60°C (-4 to 140°F)
Operating: -10 to 50°C (14 to 122°F)
Compensated: -10 to 50°C (14 to 122°F)
Temperature Effects:
Zero/Span: ±0.05%FS/°C (from 23°C reference temperature)

Static (Line) Pressure:
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)

Transducer	Supply Voltage	Supply Current
4-20mA (3 wire)	15-27 Vdc	80mA
1-5Vdc (3 wire)	11-27 Vdc	60mA

Switch Contacts: (2) TTL/CMOS relay outputs; Load 200mA (max), 40Vdc; Hysteresis (variable)
Rangeability / Adjustment⁽¹⁾:
Zero -105% to +105% FS
Span -105% to +105% FS
⁽¹⁾ Accuracy based upon full scale (URL) value

TYPE X1005, TYPE X2001 XMITR™ TRANSMITTER GAUGE



REFERENCE CONDITION: 20°C (68°F)

ACCURACY: Electrical output is 1% BFSL including non-linearity, hysteresis and non-repeatability.
Gauge is ASME B 40.1 Grade B (±3-2-3% of span)

TEMPERATURE/ENVIRONMENTAL EFFECTS:
Storage: -40 to 105°C (-40 to 221°F)
Operating: -40 to 105°C (-40 to 221°F)
Compensated: -20 to 85°C (-4 to 185°F)
Thermal effect: 3%/100°C (1.4%/100°F) typical (zero and fullscale combined)
Humidity: 0 to 95% relative humidity, non-condensing, no effect.
CE Heavy Industrial

WETTED MATERIALS: Bronze/brass or SS

OUTPUT: 4-20mA, 1-5Vdc,
.5-4.5Vdc ratio-metric

INGRESS PROTECTION/ENCLOSURE:
Stainless steel case (2", 2.5", 3.5")
Type X1005, IP54
Type X2001, IP43 std, IP54 (XLJ)

FUNCTIONAL SPECIFICATIONS:
Type X1005 compound to 600 psi.
Type X2001 compound to 600 psi.
Proof Pressure:
0 to 200 psi = 150% full scale
300 to 600 psi = 120%
Burst Pressure:
0 to 200 psi = 10x burst
300 to 600 psi = 3x burst
Vibration: 5g's 50 to 2000 Hz
Shock: 100 g-force per IEC770
Response Time: Less than 10 ms
CE heavy industrial

2 Instruments in 1. Breakthrough functionality and value. Stainless steel case, 4-20mA and voltage outputs, cable or Hirschmann conn. CE heavy industrial. Per EN61326, Per 1998 ANNEX A

Transducers & Transmitters

TYPE X1009 XMITR™ ALL SS TRANSMITTER GAUGE



REFERENCE CONDITION: 20°C (68°F)

ACCURACY: Electrical output is 1% BFSL including non-linearity, hysteresis and non-repeatability.
Gauge is ASME B 40.1 Grade 1A (1% of span)

TEMPERATURE/ENVIRONMENTAL EFFECTS:

Storage: -40 to 105°C (-40 to 221°F)
Operating: -40 to 105°C (-40 to 221°F)
Compensated: -20 to 85°C (-4 to 185°F)
Thermal effect: 3%/100°C (1.4%/100°F) typical (zero and fullscale combined)
Humidity: 0 to 95% relative humidity, non-condensing, no effect.
CE Heavy Industrial

WETTED MATERIALS: Bronze/brass or SS

OUTPUT: 4-20mA, 1-5Vdc, .5-4.5Vdc ratio-metric

INGRESS PROTECTION/ENCLOSURE:
Stainless steel case (2", 2.5", 3.5")
Type X1009, IP65 (XLJ)

FUNCTIONAL SPECIFICATIONS:

Type X1009 compound to 15,000 psi.
Proof Pressure:
0 to 600 psi = 125% full scale
1,000 to 15,000 psi = 110%
Burst Pressure:
0 to 1,500 psi = 10x burst
2,000 to 6,000 psi = 3x burst
10,000 to 15,000 psi = 3x burst
Vibration: 5g's 50 to 2000 Hz
Shock: 100 g-force per IEC770
Response Time: Less than 10 ms
CE heavy industrial

2 Instruments in 1. Breakthrough functionality and value. Stainless steel case, 4-20mA and voltage outputs, cable or Hirschmann conn. CE heavy industrial. Per EN61326, Per 1998 ANNEX A

A2 HEAVY INDUSTRIAL AND EXPLOSION PROOF TRANSMITTERS



REFERENCE CONDITION: 21°C (70°F)

ACCURACY: Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors –
Three accuracy classes based upon sensor
Span: ±0.25% ±0.5%, ±1.0%

TEMPERATURE/ENVIRONMENTAL EFFECTS:

Storage: -40 to 125°C (-40 to 257°F)
Operating: -40 to 125°C (-40 to 257°F)
Compensated: -20 to 85°C (-25 to 185°F)
Temperature Effects:
Available 1% to 2% of span over
-20 to +85°C (-4 to +185°F)
Humidity: 0 to 100% relative humidity, no effect, with welded enclosure

STABILITY:

≤0.1% Span/yr 316L SS construction
≤0.5% Span/yr 17-4 PH construction

DURABILITY: Greater than 10 million cycles

WETTED MATERIAL(S): 17-4PH SS w/316L SS housing or all 316L SS

OUTPUT: 4-20mA, 0-5Vdc, 0-10Vdc, 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)

INGRESS PROTECTION/ENCLOSURE:
Available IP65, IP67, NEMA 4X, 6, 7, 9

FUNCTIONAL SPECIFICATIONS:

Pressure Ranges (F.S.): 15 to 7500 psi absolute, 5 to 10,000 psi g, compound to 100 psi g
Overpressure: (Varies w/pressure range)
Proof: up to 2 x F.S.
Burst: up to 4 x F.S.
Vibration: Random 10 g RMS, 20-2000 Hz; Sweep 50-2000 Hz, 5 g peak
Shock: 100 g peak, 11 ms
Drop Test: No effect 1 meter drop on concrete
Response Time: <2ms
APPROVALS:
CE MARK (STANDARD):
EN 61326: 1997 +A1: 1998 Annex A
Heavy Industrial Immunity (Annex A, Table A.1)
Light Industrial/Residential Emission (Table 4)
EXPLOSION PROOF – UL:
EXPLOSION PROOF:
Class I, Div. 1 & 2, Groups A, B, C and D
Class II, Div. 1 & 2, Groups E, F and G
EXPLOSION PROOF – ATEX:
CE Ex II 2 GD
Ex d IIC T4
INTRINSICALLY SAFE – FM/CSA:
Class I, Div. 1
INTRINSICALLY SAFE, NON-INCENDIVE – FM/CSA:
Class I, Div. 2

A highly configurable transmitter designed for hazardous location and heavy industrial applications. High performance accuracy and thermal capability over -40/125°C (-40/257°F) with additional option of zero and span pots.

T2 HIGH PERFORMANCE PRESSURE TRANSDUCER



REFERENCE CONDITION: 21°C (70°F)

ACCURACY: Includes non-linearity, hys-teresis, non-repeatability – BFSL method: ±0.25% of Span

TEMPERATURE/ENVIRONMENTAL EFFECTS:

Compensated, Operating, Storage:
-40 to 125°C (-40 to 257°F)
Total Error Band combined effects of temperature, non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors –
±1% Span: through -20/85°C (-4/185°F)
±1.5% Span: through -40/-20°C and (-40/-4°F) and 85/125°C (185/257°F).
Humidity: 0 to 100% relative humidity, no effect

STABILITY: ≤0.25% Span/yr

DURABILITY: Tested to 50 million cycles

WETTED MATERIALS: 17-4PH SS diaphragm, 304 SS process connection

OUTPUT: 4-20mA, 0-5Vdc, 0-10Vdc, 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)

INGRESS PROTECTION/ENCLOSURE:
NEMA 4X, IP65

FUNCTIONAL SPECIFICATIONS:

Pressure Ranges (F.S.): 30 to 20,000 psi g, compound to 300 psi g
Overpressure: (Varies w/pressure range)
Proof: up to 3 x F.S.
Burst: up to 10 x F.S.
Vibration: Random (20g) over temperature range -40 to 125°C, (-40 to 257°F), exceeds typical MIL STD requirements
Shock: 100 g, 6 ms
Drop Test: No effect 1 meter drop on concrete
Response Time: <1ms
Approvals: CE compliance per EN 61326: 1997 +A1:1997 +A2:2001
Annex A (Heavy Industrial)

A robust pressure transducer designed for industrial applications featuring Ashcroft's proven polysilicon thin film pressure sensing element. Voltage and current outputs, a variety of pressure ports and electrical terminations to international standards with excellent accuracy and performance over -40 to 125°C, (-40 to 257°F)

Transducers & Transmitters

TYPE G2 OEM PRESSURE TRANSDUCER



REFERENCE CONDITION: 21°C (70°F)

ACCURACY: Total Error Band combined effects of temperature, non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors –
±1% Span: through –20/85°C (–4/185°F)
±1.5% Span: through –40/–20°C and (–40/–4°F) and 85/125°C (185/257°F).

TEMPERATURE/ENVIRONMENTAL EFFECTS:

See accuracy, previous, for details
 Compensated, Operating, Storage: –40 to 125°C (–40 to 257°F)
 Humidity: 0 to 100% relative humidity, no effect

STABILITY: ≤0.25% Span/yr

DURABILITY: Tested to 50 million cycles

WETTED MATERIALS: 17-4PH SS diaphragm, 304 SS process connection

OUTPUT: 4-20mA, 0-5Vdc, 0-10Vdc, 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)

INGRESS PROTECTION/ENCLOSURE: NEMA 4X, IP65 and IP67

FUNCTIONAL SPECIFICATIONS:

Pressure Ranges (F.S.): 30 to 20,000 psi g, compound to 300 psi g
 Overpressure: (Varies w/pressure range)
 Proof: up to 3 x F.S.
 Burst: up to 10 x F.S.
 Vibration: Random (20g) over temperature range –40 to 125°C, (–40 to 257°F), exceeds typical MIL STD requirements
 Shock: 100 g, 6 ms
 Drop Test: No effect 1 meter drop on concrete
 Response Time: <1ms
 Approvals: CE compliance per EN 61326: 1997 +A1:1997 +A2:2001
 Annex A (Heavy Industrial)

An economical transducer designed for the high volume OEM. Excellent accuracy and performance over –40/125°C temperature range. IP67 ingress rating and 100V/m EMC immunity.

KM10 HIGH VOLUME OEM PRESSURE TRANSDUCER



REFERENCE CONDITION: 20°C (68°F)

ACCURACY: Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors –
 ±0.5% Span, 100 psig F.S. and above
 ±1.0% Span, 75 psig F.S. and below

TEMPERATURE/ENVIRONMENTAL EFFECTS:

Storage: –40 to 120°C (–40 to 250°F)
 Operating: –40 to 120°C (–40 to 250°F)
 Compensated: –30 to 120°C (–25 to 250°F)
 Thermal Coefficients:
 –30 to 120°C (–25 to 250°F)
 Zero 0.01%/F.S./°C (±0.0055%/F.S./°F)
 Span 0.01%/F.S./°C (±0.0055%/F.S./°F)
 Humidity: 0 to 100% relative humidity, no effect

STABILITY: ±0.25% Span/yr

INTERCHANGEABILITY: <0.5% Span.

DURABILITY: Tested to 50 million cycles

WETTED MATERIAL(S): 17-4PH SS diaphragm, 304 SS process connection

OUTPUT: 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)

INGRESS PROTECTION/ENCLOSURE: IP67

FUNCTIONAL SPECIFICATIONS:

Pressure Ranges (F.S.): 15 to 7500 psi g/s, compound to 300 psi g
 Overpressure (F.S.): **Proof Burst**
 ≤ 3000 psig 2 x F.S. 5 x F.S.
 5000 psig 1.5 x F.S. 5 x F.S.
 7500 psig 1.2 x F.S. 5 x F.S.
 Vibration: Random to 1 KHz
 Shock: 50 g, 11 ms
 Drop Test: No effect 1 meter drop on concrete
 Response Time: <1ms
 Approvals: CE compliance per EN 61326: 1997 Annex A 1998(A1)
 Warm-up Time: <25 ms

An economical transducer designed for the high volume OEM. Voltage outputs, a variety of pressure ports and electrical terminations to international standards with excellent accuracy and performance over –30 to 120°C (–25 to 250°F). IP67 ingress rating and 100V/m EMC immunity.

K1/K2 SERIES INDUSTRIAL TRANSDUCER



REFERENCE CONDITION: 20°C (68°F)

ACCURACY: Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors –
 Two accuracy classes based upon sensor Span: ±0.5%, ±1.0%

TEMPERATURE/ENVIRONMENTAL EFFECTS:

Storage: –54 to 120°C (–65 to 250°F)
 Operating: –28 to 82°C (–20 to 180°F)
 Compensated: –28 to 71°C (–20 to 160°F)
 Thermal Coefficients (20°C/68°F Ref.):

Accuracy Class (Span)	Zero/Span (%F.S./°F)
0.5%	±0.028
1.0%	±0.04

 Humidity: 0 to 95% relative humidity, non-condensing, no effect

STABILITY: ±0.50% Span/yr

DURABILITY: 100,000,000 cycles

WETTED MATERIAL(S): 17-4PH SS diaphragm, 316 SS process connection

OUTPUT:

K1: 4-20mA, 1.5Vdc, 1-6Vdc, 1-11Vdc
 K2: 2, 3, 10, 20 mV/V

INGRESS PROTECTION/ENCLOSURE: NEMA 1, NEMA 4X

FUNCTIONAL SPECIFICATIONS:

Pressure Ranges (F.S.): 15 to 20,000 psi g, compound to 60 psi g
 Overpressure (F.S.): **Proof Burst**
 ≤ 2000 psig 2 x F.S. 8 x F.S.
 3000 to 5000 psig 1.5 x F.S. 3 x F.S.
 7500 to 20,000 psig 1.2 x F.S. 1.5 x F.S.
 Vibration: 0-2000 Hz at 20 g in any axis
 Shock: 100 g, 20 ms
 Response Time: <5ms

HAZARDOUS AREA APPROVALS: Available FM Intrinsically Safe and Nonincendive, and UL Intrinsically Safe – consult factory

A versatile and proven industrial transducer with an extensive installed base. Wide range of pressure fittings and electrical terminations along with FM & UL hazardous area approvals.

K8 SERIES TRANSDUCER w/mV SIGNAL



REFERENCE CONDITION: 20°C (68°F)

ACCURACY: Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors –
 Two accuracy classes based upon sensor Span: ±0.5%, ±1.0%

TEMPERATURE/ENVIRONMENTAL EFFECTS:

Storage: –54 to 120°C (–65 to 250°F)
 Operating: –28 to 82°C (–20 to 180°F)
 Compensated: –28 to 82°C (–20 to 180°F)
 Thermal Coefficients (20°C/68°F Ref.):

Accuracy Class (Span)	Zero/Span (%F.S./°F)
0.5%	±0.028
1.0%	±0.04

 Humidity: 0 to 95% relative humidity, non-condensing, no effect

STABILITY: ±0.50% Span/yr

DURABILITY: 100,000,000 cycles

WETTED MATERIAL(S): 17-4PH SS diaphragm, 316 SS process connection

OUTPUT: Varies from 6-18 mV/V at F.S. ratiometric





INGRESS PROTECTION/ENCLOSURE: NEMA 4X

FUNCTIONAL SPECIFICATIONS:





Pressure Ranges (F.S.): 45 to 20,000 psi g
 Overpressure (F.S.): **Proof Burst**
 ≤ 2000 psig 2 x F.S. 2 x F.S.
 3000 to 5000 psig 1.5 x F.S. 3 x F.S.
 7500 to 20,000 psig 1.2 x F.S. 1.5 x F.S.
 Vibration: 0-2000 Hz at 20 g in any axis
 Shock: 100 g, 20 ms shock in any direction

A pressure transducer for applications that can incorporate an unconditioned mV/V output and require the proven benefits of the polysilicon thin film pressure sensing element. A broad range of pressure fittings allow the user design flexibility in packaging.

Transducers & Transmitters

KX/KS SERIES SANITARY TRANSDUCERS	TYPE GC52 RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER	DIN/PANEL/WALL MOUNT CXLdp SERIES	DIN MOUNT DXLdp SERIES
 <p>KX KS</p>	 <p>CE LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS</p>	 <p>NEW! CE LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS</p>	 <p>CE LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS</p>
REFERENCE CONDITION: 20°C (68°F)	REFERENCE CONDITION: 23°C ±2° (73°F)	PRESSURE RANGES (Inches W.C.)	PRESSURE RANGES (Inches W.C.)
ACCURACY: Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors – ±1.0% Span	Accuracy: ±0.50% FS (URL) (Accuracy includes the effects of linearity, hysteresis, and repeatability) Stability: ±0.25% FS/year Response Time: 100msec (adjustable) Output Resolution: 0.1% FS (URL) Standard Ranges (Bi-Directional, Inches W.C.): ±4, ±8, ±20, ±40, ±80, ±200 Standard Ranges (Uni-Directional, Inches W.C.): 0-4, 8, 20, 40, 80, 200, 400	Unidirectional: 0/0.10 to 0/25 I.W.C. Bidirectional: ±0.10 to ±15 I.W.C.	Unidirectional: 0/0.10 to 0/50 I.W.C. Bidirectional: ±0.05 to ±25 I.W.C.
TEMPERATURE/ENVIRONMENTAL EFFECTS:	Temperature Limits: Storage: –15 to 65°C (5 to 150°F) Operating: –10 to 60°C (14 to 140°F) Compensated: –10 to 60°C (14 to 140°F) Temperature Effects (–10 to 60°C): ±0.03% FS/°C (from reference, 23°C (73°F))	ACCURACY: 0.8% or 0.4% span	ACCURACY: 0.25% or 0.50% span
Storage: –54 to 120°C (–65 to 250°F) Operating: –28 to 82°C (–20 to 180°F) Compensated: KS –0 to 50°C (–30 to 130°F) KX –28 to 71°C (–20 to 160°F) Thermal Coefficients (20°C/68°F Ref.), (%FS/°F): Zero ±0.04 Span ±0.04 Humidity: 0 to 95% relative humidity, non-condensing, no effect	Static (Line) Pressure: Pressure Range Proof Burst All 300 psi 1000 psi	TEMPERATURE LIMITS Storage: –40 to 180°F Operating: 0 to 160°F Compensated: –35 to 130°F	Non-lin (Term.Pt.) ±0.20 ±0.40 (B.S.F.L.) ±0.15 ±0.30 Hysteresis ±0.02 ±0.02 Non-Repeatability ±0.03 ±0.05
STABILITY: ±0.50% Span/yr	Static (Line) Pressure Effects: Pressure Range Effect ≥20"W.C., ±8"W.C. ±0.3% FS/100psi 8"W.C., ±4"W.C. ±0.7% FS/100psi 4"W.C. ±1.5% FS/100psi	OVERPRESSURE Proof Pressure: 15 psi Burst Pressure: 25 psi	TEMPERATURE LIMITS Storage: –40 to 180°F Operating: –20 to 160°F Compensated: –35 to 135°F
WETTED MATERIAL(S): KS: 316L SS diaphragm and process connection KX: 316Ti SS diaphragm and 316 SS process connection	Single Side (Differential) Limits: Pressure Range Proof Burst ≤8"W.C., ±4"W.C. 30 psid 130 psid ≥20"W.C., ±8"W.C. 100 psid 130 psid Vibration: 5g's 150Hz Shock: 10g's 16ms	OUTPUT SIGNAL 4-20mA, (12-36Vdc), 0-5, 0/10Vdc (24Vac)	OVERPRESSURE Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi
FILL FLUIDS: KS: USP grade 99.5% glycerine fill KX: Silicone	Output Signal: 4-20mA (2 Wire) Supply Voltage: 12-32Vdc Rangeability / Adjustment⁽¹⁾: Zero –10% to +110% FS Span –10% to +110% FS ⁽¹⁾ Accuracy and output resolution based upon full scale (URL) value	ENCLOSURE NEMA 1	OUTPUT SIGNAL 4-20mA, 1-5Vdc, 1-6Vdc, 0-5, 0/10Vdc
OUTPUT: KS: 4-20mA, 1.5Vdc, 1-6Vdc; 2, 3, 10, 20 mV/V ratiometric KX: 4-20mA, 1.5Vdc, 1-6Vdc	Insulation Resistance: 50Vdc (>100Mohms) CE Compliance: EN 613261 1997, A1/1998, A2/2001 (Heavy Industrial)	MATERIALS ABS (UL94-5V4)	ENCLOSURE NEMA 1
INGRESS PROTECTION/ENCLOSURE: NEMA 4X	Pressure Connection: ¼ Female NPT Enclosure: Aluminum Rating: IP65 / NEMA 4X Electrical Connection (Options): – ¼ Female NPT Conduit – Cable Gland (Cable Diameters 0.35" to 0.47")	PRESSURE CONNECTIONS ¼ Brass Barb ½ NPT Female	MATERIALS Glass-filled Polycarbonate (UL94-V-1)
FUNCTIONAL SPECIFICATIONS: Pressure Ranges (F.S.): KS: 30 to 1000 psi g, compound to 100 psig Kx: 100 to 5000 psi g Overpressure (F.S.): ≤ 2000 psig 2 x F.S. 8 x F.S. 3000 to 5000 psig 1.5 x F.S. 3 x F.S. Vibration: 0-400 Hz at 20 g in any axis Shock: 20 g, 20 ms in any axis	Weight: Approx. 1.0 lb Mounting: Mounting Bracket included Media: Fluids and gases compatible with 316SS, Viton and Alumina	MEDIA Clean, dry and non-corrosive gas	PRESSURE CONNECTIONS ½ NPT Brass
For use in sanitary, waste-water, food processing and pharmaceutical applications. The KS Series features a 316L stainless steel electropolished TriClamp style diaphragm while the KX Series features several options designed for harsh applications – flush mounted diaphragm, PMC adapter or weldnuts. The polysilicon thin film pressure sensing element offers proven performance and stability.		MOUNTING DIN rail or panel mount	MEDIA Clean, dry and non-corrosive gas (consult factory for use on other media)
		NOT FOR USE ON LIQUIDS	MOUNTING DIN rail mount: EN50022 EN50035 EN50045
		Static or velocity pressure measurement for flow stations, ducts, building pressure, filter efficiency, van boxes or room pressurization.	NOT FOR USE ON LIQUIDS
			Designed for ease of installation and system calibration, the DXLdp is ideal for pharmaceutical plants and other installations where large numbers of air flow and dp measurements are being monitored.

Transducers & Transmitters

REDUCED SIZE RXLdp SERIES	HIGH PERFORMANCE XLdp SERIES	INDUSTRIAL IXLdp SERIES	2279 DURATRAN® PRESSURE TRANSMITTER
 <p>3 YEAR WARRANTY</p> <p>CE LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS</p>	 <p>3 YEAR WARRANTY</p> <p>CE LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS</p>	 <p>3 YEAR WARRANTY</p> <p>FM APPROVED LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS</p>	 <p>PLUS! Performance</p>
PRESSURE RANGES (Inches W.C.) Unidirectional: 0/0.10 to 0/50 I.W.C. Bidirectional: ± 0.05 to ± 25 I.W.C.	PRESSURE RANGES (Inches W.C.) Unidirectional: 0/0.10 to 0/50 I.W.C. Bidirectional: ± 0.05 to ± 25 I.W.C.	PRESSURE RANGES (Inches W.C.) Unidirectional: 0/0.10 to 0/200 I.W.C. Bidirectional: ± 0.05 to ± 100 I.W.C.	ACCURACY $\pm 0.5\%$
ACCURACY CLASS F.S. 1% Non-lin (Term.Pt.) ± 0.80 (B.S.F.L.) ± 0.60 Hysteresis ± 0.05 Non-Repeatability ± 0.10	ACCURACY CLASS F.S. 0.25% 0.50% Non-lin (Term.Pt.) ± 0.20 ± 0.40 (B.S.F.L.) ± 0.15 ± 0.30 Hysteresis ± 0.02 ± 0.02 Non-Repeatability ± 0.03 ± 0.05	ACCURACY CLASS F.S. 0.25% 0.50% Non-lin (Term.Pt.) ± 0.20 ± 0.40 (B.S.F.L.) ± 0.15 ± 0.30 Hysteresis ± 0.02 ± 0.02 Non-Repeatability ± 0.03 ± 0.05	DIAL SIZE 4 1/2" analog CASE MATERIAL Phenolic
TEMPERATURE LIMITS Storage: -40 to 180°F Operating: 0 to 160°F Compensated: $+40$ to 125°F	TEMPERATURE LIMITS Storage: -40 to 180°F Operating: -20 to 160°F Compensated: $+35$ to 135°F	TEMPERATURE LIMITS Storage: -40 to 210°F Operating: -20 to 185°F Compensated: 0 to 160°F	WETTED MATERIAL 316 stainless steel, Monel SENSING ELEMENT Bourdon tube
OVERPRESSURE Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi	OVERPRESSURE Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi	OVERPRESSURE Proof Pressure: 20 psi Burst Pressure: 50 psi Maxi. static (line) pressure: 100 psi	CONNECTION – NPT 1/2 NPT (standard) lower
OUTPUT SIGNAL 4-20mA, 1-5Vdc, 1-6Vdc, 0-5, 0/10Vdc	OUTPUT SIGNAL 4-20mA, 1-5Vdc, 1-6Vdc	APPROVALS (optional) FM-IS & Nonincendive	RANGES Vacuum and compound, 12 to 20,000 psi
ENCLOSURE NEMA 1	ENCLOSURE NEMA 2	OUTPUT SIGNAL 4-20mA, 1-5Vdc, 1-6Vdc, $\pm 5\text{Vdc}$, $\pm 2.5\text{Vdc}$	ENCLOSURE NEMA 4X
MATERIALS Case is Stainless Steel Cover is Polycarbonate	MATERIAL 300 Series Stainless Steel	ENCLOSURE NEMA 4X	MATERIAL 300 Series Cast Stainless Steel
PROCESS CONNECTIONS 1/4" Barbed Stainless Steel 1/8" Barbed Stainless Steel 1/8 NPTF Stainless Steel	PROCESS CONNECTIONS 1/4" Barbed Stainless Steel 1/8" Barbed Stainless Steel 1/4 NPTF Stainless Steel	PROCESS CONNECTIONS 1/4 NPTF St. St.	PROCESS CONNECTIONS 1/4 NPTF St. St.
MEDIA Clean, dry and non-corrosive gas (consult factory for use on other media)	MEDIA Clean, dry and non-corrosive gas (consult factory for use on other media)	MEDIA Clean, dry and non-corrosive gas (consult factory for use on other media)	MEDIA Clean, dry and non-corrosive gas (consult factory for use on other media)
NOT FOR USE ON LIQUIDS	NOT FOR USE ON LIQUIDS	NOT FOR USE ON LIQUIDS	NOT FOR USE ON LIQUIDS
A compact transmitter for comfort control and other HVAC applications.	High performance dp transmitter with proven reliability and stability. Excellent for air handling applications including fume hood control and room pressurization.	A rugged low pressure transmitter in cast 300 series stainless steel enclosure. A good choice for dp monitoring in pollution control, combustion control, and other applications where precision sensing is needed in a tough environment.	Two instruments in one! Provides local indication and 4-20mA signal for many industrial applications.

Temperature Instruments

FT POCKET TEST COMMERCIAL THERMOMETERS	EI, CI & EL INDUSTRIAL BIMETAL THERMOMETERS	600A & 600B DURATEMP® THERMOMETERS	2400E & 2410E DIGITAL THERMOMETERS
			
ACCURACY ASME B 40.3 Grade A ($\pm 1\%$ of span)	ACCURACY ASME B 40.3 Grade A ($\pm 1\%$ of span)	ACCURACY ASME B 40.3 Grade A ($\pm 1\%$ of span)	RESOLUTION 1°
DIAL SIZE 1"	DIAL SIZE EI, CI 2", 3", 5" (EL 3", 5")	DIAL SIZE 600A – 4½", 6" 600B – 4½"	UPDATE TIME 3 readings per second
STEM/BULB DESIGN Rigid stem 0.142" dia.	STEM/BULB DESIGN Rigid stem 0.250" dia.	STEM/BULB DESIGN Rigid stem 0.375" dia. (600B) Bendable 0.375" dia. (600A)	CASE SIZE 2.030" dia. x 1.39"
RECALIBRATOR External	RECALIBRATOR (EI, EL external), (CI none)	RECALIBRATOR Adjustable pointer	CASE ABS and acrylic
SEALING DESIGN Hermetically sealed	SEALING DESIGN Hermetically sealed; EL liquid filled	SEALING DESIGN Weatherproof	VIBRATION 50 to 200 Hz @ 2.5g no effect
DAMPENING Silicone-dampened bimetal coil	DAMPENING Silicone-dampened bimetal coil; EL liquid filled	DAMPENING Silicone-encapsulated helical Bourdon tube	RANGE –40°F to 199°F; 0°F to 250°F, –40°C to 120°C
CONNECTION LOCATION Rear	CONNECTION LOCATION EI rear, lower, Everyangle™ mount CI rear, lower EL rear, Everyangle mount	CONNECTION LOCATION 600A – rear, lower – remote mount 600B – Everyangle – direct mount	AMBIENT TEMP. LIMIT –30°F to 160°F (–34°C to 71°C)
CONNECTION SIZES (NPT) Plain	CONNECTION SIZES (NPT) Plain ¼ (2" sizes only) ½ and ½ union (3", 5" sizes only)	CONNECTION SIZES (NPT) ½" union	ZERO & SPAN ±10% of operating range through two single-turn potentiometers located on the back of the thermometer's module
STEM LENGTH 5"	STEM LENGTH 2½"–60"	STEM LENGTH 6"–36" – 600B	POWER 110 Vac input – 6 Vdc regulated output (220 Vac or 24 Vac optional)
RANGES –80°F to 550°F –30°C to 300°C	RANGES –80°F to 1000°F, –50°C to 500°C EL –40°F to 550°F, –20°C to 300°C	RANGES –320°F to 1200°F –200°C to 650°C	HUMIDITY LIMITS Up to 100% RH @ 140°F max.
CASE/RING MATERIAL Stainless steel (no ring)	CASE/RING MATERIAL Stainless steel	CASE/RING MATERIAL Stainless steel, aluminum, phenol	APPROVALS UL recognized (File: E103515), NSF C-2, CSA (File: Natl/C, LR 76285-2)
CASE/BULB MATERIAL Stainless steel	CASE/BULB MATERIAL Stainless steel	CASE/BULB MATERIAL Stainless steel	SENSOR Laser trimmed 2000 ohm RTD 0.250" dia. x 2.54" long 300 series stainless steel with 8' wire cable
WINDOW Polycarbonate	WINDOW EI, CI glass (EL Polycarbonate)	CAPILLARY MATERIAL 600A– 300 Series stainless steel WINDOW Glass	WEIGHT Display – 35g (0.08lb) Power Supply – 211g (0.5lb)
Applications include sample testing of food vats, cooking or air duct temperature use. Compact and portable.	General industrial temperature applications including gases, liquids, and other proc-esses. All stainless steel construction.	Rugged applications including gases, liquids and other processes. Wide temperature ranges including remote monitoring.	Applications include freezers, coolers and food storage equipment where remote monitoring and solid state digital readout is preferred.

Pressure and Temperature Switches

SINGLE SETPOINT WATERTIGHT ENCLOSURES	SINGLE SETPOINT EXPLOSION PROOF ENCLOSURES	DUAL SETPOINT WATERTIGHT ENCLOSURES	DUAL SETPOINT EXPLOSION PROOF ENCLOSURES
<p style="text-align: center;">B-SERIES</p> 	<p style="text-align: center;">B-SERIES</p> 	<p style="text-align: center;">L-SERIES</p> 	<p style="text-align: center;">P-SERIES</p> 
<p>FEATURES</p> <p>Enclosure: Watertight epoxy-coated aluminum NEMA 4, 4X, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT (or) Single setpoint, fixed deadband, (2) SPDT (DPDT action)</p> <p>Wetted Materials: Stainless steel and Buna, *Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 600 psid H-Series Pressure: 1000 – 7500 psi</p>	<p>FEATURES</p> <p>Enclosure: Explosion proof, NEMA 7/9, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT (or) Single setpoint, fixed deadband, (2) SPDT (DPDT action)</p> <p>Wetted Materials: Stainless steel, Buna, Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 600 psid</p> <p>U.L. or CSA LISTED, ATEX and IECEx models for Hazardous locations now available.</p>	<p>FEATURES</p> <p>Enclosure: Watertight epoxy-coated aluminum NEMA 4, 4X, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT contacts (or) Single setpoint, fixed deadband, (2) SPDT contacts (DPDT action) (or) Single setpoint, adjustable deadband, SPDT contacts (or) Dual setpoint, fixed deadband, (2) SPDT contacts, (DPDT action)</p> <p>Wetted Materials: Stainless steel and Buna, Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 400 psid</p>	<p>FEATURES</p> <p>Enclosure: Watertight epoxy-coated aluminum explosion-proof NEMA 7/9, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT contacts (or) Single setpoint, fixed deadband (2) SPDT contacts (DPDT action) (or) Single setpoint, adjustable deadband, SPDT contacts (or) Dual setpoint, fixed deadband (2) SPDT contacts, (DPDT action)</p> <p>Wetted Materials: Stainless steel and Buna, Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 400 psid</p>
<p>U.L. and CSA LISTED</p> <p>*Registered trademark of E. I. DuPont</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <small>LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS</small> </div> <div style="text-align: center;">  </div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <small>LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS</small> </div> <div style="text-align: center;">  </div> </div>	<p>U.L. and CSA LISTED</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <small>LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS</small> </div> <div style="text-align: center;">  </div> </div>	<p>U.L. or CSA LISTED</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <small>LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS</small> </div> <div style="text-align: center;">  </div> </div>
<p>General purpose switches for most industrial and process applications. Models are available for steam and fuel pressure-limit controls on boilers and burners. Ideal for compressors, turbines, filters, blowers, etc.</p>	<p>Ashcroft 700 series has been developed for most applications found in process plants U.L. or CSA LISTED.</p> <p>All models have similar performance characteristics to the popular Ashcroft B400 Series switch line, which has been used throughout the world's plants and mills for over 25 years. They feature rugged, reliable diaphragm-sealed piston actuators, snap-acting contacts and all-popular wetted materials and process connections. Optional hermetically sealed contacts, Monel or fire-safe actuators and scores of options allow you to choose a model for any application.</p>	<p>Easy-to-use L-Series switches are specifically suited for the OEM seeking more features in a snap-acting switch. Single or dual setpoints and fixed or adjustable deadband models with many wetted materials and electrical ratings are offered. This snap-acting switch also replaces older mercury models and is cost effective.</p> <p>L-Series switches are ideal for blowers, generators, scrubbers, precipitators, compressors and turbines.</p>	<p>More varieties and more features are available in the highly reliable P-Series switch which is especially suited for process and refinery applications. Dual chamber design allows setpoint changes to be made safely, even with power connected. Features include NEMA 4X/ NEMA 7/9 enclosure, with single or dual setpoints, fixed or adjustable deadbands, with many wetted materials and electrical ratings. Optional, all-welded stainless steel or Monel actuators are ideal for applications requiring NACE or fire-safe conformance. Optional UL listed, hermetically sealed switch contacts improve safety and reliability.</p>

Pressure and Temperature Switches

WATERTIGHT STAINLESS STEEL ENCLOSURES	COMPACT EXPLOSION PROOF PRESSURE	MINIATURE PRESSURE SWITCHES	ELECTRONIC PRESSURE SWITCHES.
<p>G-SERIES</p> 	<p>F-SERIES</p> 	<p>A-SERIES</p> 	<p>N-SERIES</p> 
<p>FEATURES</p> <p>Enclosure: Watertight 316 stainless steel NEMA 4, 4X, IP65</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT contacts (or) Single setpoint, fixed deadband (2) SPDT contacts (DPDT action) (or) Single setpoint, adjustable deadband, SPDT contacts (or) Dual setpoint, fixed deadband (2) SPDT contacts (DPDT action)</p> <p>Wetted Materials: Stainless steel and Buna, Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 400 psid</p>	<p>FEATURES</p> <p>Enclosure (Body): Explosion-proof, anodized aluminum NEMA 7/9, IP66</p> <p>Switch Function: Single setpoint, field-adjustable fixed deadband, SPDT contacts (or) Single setpoint, field-adjustable fixed deadband, (2) SPDT contacts (DPDT action)</p> <p>Wetted Materials: 316 stainless steel pressure connection and choice of: Buna N, Teflon® or Viton® diaphragm and O-ring (or) All-welded 316 stainless steel diaphragm</p> <p>Ranges: Pressure: vac. thru 4000 psi</p>	<p>FEATURES</p> <p>Enclosure: NEMA 4X watertight or NEMA 7/9 explosion proof, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, factory set SPDT contacts (or) Single setpoint, fixed deadband, field-adjustable SPDT contacts</p> <p>Wetted Material: Brass (Buna N, Viton® or Teflon® actuator) Stainless steel</p> <p>Ranges: Vac thru 2000 psi.</p>	<p>FEATURES</p> <p>Enclosure: NEMA 4X watertight or NEMA 7/9 explosion proof, IP66</p> <p>Switch Function: Single setpoint with adjustable deadband</p> <p>Wetted Material: Stainless steel</p> <p>Ranges: 60 thru 20,000 psi. Deadbands as low as 0.1% of range.</p> <p>Optional process and setpoint indication and 4-20mA transmitter output available.</p>
<p>U.L. and CSA LISTED</p> <div data-bbox="186 1438 300 1512">  <small>LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS</small> </div> <div data-bbox="300 1396 430 1512">  </div> <p>The stainless steel enclosure offers greater corrosion protection for this high-performance switch in breweries, dairies, chemical and petrochemical plants, offshore rigs and pulp and paper mills. Our standard diaphragm-sealed piston actuators and a variety of wetted materials are available in these pressure, temperature and differential pressure switches.</p>	<p>U.L. and CSA LISTED</p> <div data-bbox="527 1323 641 1396">  <small>LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS</small> </div> <div data-bbox="641 1281 771 1396">  </div> <p>Compact size facilitates mounting in panels and other installations where space is a premium. Standard hermetically sealed switch element and sealed conduit connection eliminate the possibility of condensation entering the enclosure from the conduit. Standard 1/2 NPTF pressure connection makes retrofit on existing installations quick and easy.</p>	<p>U.L. and CSA LISTED</p> <div data-bbox="941 1228 1063 1344">  </div> <p>You should consider Ashcroft A-Series pressure switches for use on heavy vehicles, engines and compressors, electronics processing and medical equipment, food and beverage processing equipment, garbage compactors, machine tools, or any equipment where space is a consideration. This series is especially suitable for OEM configuration.</p>	<div data-bbox="1307 1186 1429 1302">  </div> <p>The Ashcroft N-Series electronic pressure switch combines the popular K-Series polysilicon thin film pressure transducer sensor and rugged, epoxy-coated enclosures. The result is a highly reliable pressure switch that is ideal for high cycle, high pressure, or difficult deadband applications. Typical applications include: machine tools, injection molding machines, presses, pumps, hydraulic systems, turbines, and compressors.</p>

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



LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS

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 EEx d IIC T6

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.

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.

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