ASHCROFT®
WEKSLER®

Instrumentation for Air Conditioning, Heating and Refrigeration Industries

Ashcroft® pressure, temperature and control instruments are specifically designed to meet the stringent demands of the air conditioning, heating and refrigeration industries. And along with our high quality, rugged instruments, Ashcroft provides detailed documentation for your critical engineering and compliance requirements. Visit www.ashcroft.com for more information. Or call us direct at 800-328-8258 and let one of our experts help you specify the right instruments for your application.

ISO 9001
REGISTERED FIRM
BULLETIN AHR-1

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
Tel: 203-378-8281 • Fax: 203-385-0408
email: info@ashcroft.com • www.ashcroft.com

ASHCROFT®

PRESSURE GAUGES

Instrumentation for Air Conditioning, Heating & Refrigeration Industries

PRESSURE GAUGES:

Ashcroft offers a broad line of commercial gauges with the patented Power*Flex*™ movement and True Zero™ indication. Independent lab testing shows that the Power*Flex*™ movement is more shock resistant than conventional movement gauges. With True Zero™ indication you can be certain that if your gauge reads zero - there is zero pressure in your system.

FlutterGuard™ which eliminates pointer flutter and extends gauge life, comes standard on Type 1007P refrigeration gauges and is available as an optional feature on other commercial gauges. 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. The Type 1008A/AL stainless steel case gauges are an excellent choice in harsh environmental conditions

INDICATING AND NON-INDICATING PRESSURE TRANSMITTERS:

Ashcroft pressure sensors combine proven reliability and long-term stability to meet stringent demands set by the HVAC/R industry. Our instruments utilize multiple sensing technologies designed to fulfill challenging flow and air pressure measurements from 0.05˝ H_2O and up; stainless steel designs where fluid isolation and media compatibility is critical. Various packaging options and custom configurability enable sensor installations in high vibration and shock environments and/or extreme temperature environments.

Rangeable pressure transmitters allow for easy rescaling, re-zero or loop check functionality. Fixed-range product provides value with compact size and high performance. Various models offer pressure ranges in Gauge, Compound or Differential (uni-directional/bi-directional); unit of measure available in English or Metric.

SWITCHES:

Compressor control, control applications, high alarm and low alarm demand durable, reliable and accurate controls. Ashcroft's line of pressure, differential pressure and temperature switches are designed to meet these demanding requirements. Ashcroft offers NEMA 4X or NEMA 7 and 9 rated enclosures in both epoxy coated die cast aluminum housings, or stainless steel housings to meet these harsh environments. Switches are available with a wide range of micro switches and deadband ranges to meet all applications.

COMMERCIAL GAUGES

MODEL: 1008A/AL, 1005, 1005PS

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

DIAL SIZE:
1½˝, 2˝, 2½˝, 3½˝ (4½˝ available with steel case/ring and plastic window, Type 1000)
63mm (2½˝), 100mm (4˝)

CASE MATERIAL:
1005P – ABS, black
1005 – Black painted steel
1005S – Stainless steel (1½˝ & 2˝ only)
Optional, color other than black, vent hole, panel mount sleeve for 1005P back connect
1008A/AL – 304 stainless steel, dry, liquid filled or field fillable

RING MATERIAL:
1008A/AL – 304 stailnless steel

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

SENSING ELEMENT:
Bourdon tube; Ashcroft patented Power*Flex*™ movement

CONNECTION:
⅛ and ¼ NPT back and lower
(1½˝ 1005S available in ⅛ NPT back only; 1½˝˝ 1005/1005P available in ⅛ NPT lower and back; 4½˝ Type 1000 available in ¼ NPT only)
1008A/AL – ¼ NPT lower & back conn. only

RANGES: Vac.-15,000 psi and compound*

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

REFRIGERATION MANIFOLD COMMERCIAL GAUGES

MODEL: 1007P

ACCURACY: ±1% at zero, ±2% three fourths of scale, ±5% last fourth of scale

DIAL SIZE: 2½˝

CASE MATERIAL:
ABS, red (high pressure)
ABS, blue (low pressure)
Optional, black, ABS

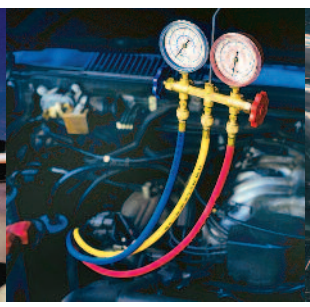
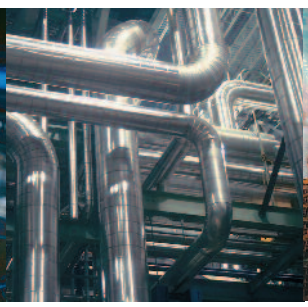
WETTED MATERIAL: Bronze/brass

SENSING ELEMENT: Bourdon tube; Ashcroft patented Power*Flex*™ movement with FlutterGuard™

CONNECTION: ⅛ NPT lower

RANGES:
Vac/0/120 psi retard to 250 psi, 0/500 psi
Vac/0/500 psi retard to 800 psi, 0/800 psi
Optional, alternate refrigerant ranges

NOTE: for panel mount refrigeration gauges (recovery, recycling) see Type 1001T gauge. Specify 1001T, XRR gauge

PRESSURE TRANSMITTERS

NON-INDICATING PRESSURE TRANSMITTER

MODEL: CXLdp, DXLdp, IXLdp, XLdp, RXLdp

ACCURACY (of Span):
CXLdp: +/-0.4%, +/-0.8%
DXLdp: +/-0.25%, +/-0.5%, +/-1%
IXLdp, XLdp: +/-0.25%, +/-0.5%
RXLdp: +/-1%

OUTPUT (options include):
4-20mA, 0-5V, 1-5V, 0-6V, 1-6V, 0-10V, 1-10V

POWER SUPPLY: 12–36Vdc

CASE MATERIAL:
ABS, Glass-filled Polycarbonate, Stainless Steel / Lexan, 300 Series Stainless Steel

ENCLOSURE RATING: NEMA 1, 2, 4X

PRESSURE CONNECTION:
⅛″ NPT Female NPT, ¼″ Male Barbed, ⅛″ Male Barbed

ELECTRICAL CONNECTION:
Euro-style Pluggable Terminal Block, Screw Termination, ½″ Female Conduit

PRESSURE RANGES:
Uni-directional: 0.10″ to 200″ in. H20
Bi-directional: +/-0.05″ to +/-100″ in. H20
Proof Pressure: 15 psi to 20 psi
Static Pressure: 25 psi to 100 psi

PROCESS TEMPERATURE LIMITS::
0/160°F (-18/71°C)

PROCESS MEDIA:
Clean, Dry and Non-Corrosive Gas

CE LOOK FOR THIS MARK ON OUR PRODUCTS

INDICATING PRESSURE TRANSMITTER

MODEL: GC51, GC52, GC55

ACCURACY (FS): GC51: +/-0.25%
GC52 / GC55: +/-0.50%

OUTPUT: 4-20mA, 1-5V (GC55)

POWER SUPPLY:
12-32 Vdc, 15-27Vdc, 11-27Vdc

CASE MATERIAL: Aluminum, Epoxy Coated

ENCLOSURE RATING: NEMA 4X, IP65, IP66

DISPLAY:
GC51/GC52: 4 Digit with LED backlight
GC55: 3½ Digit

PRESSURE CONNECTION:
½″ Female NPT, ⅛″ Female NPT,
54mm Conversion Joint for 3-way manifold

ELECTRICAL CONN.: Conduit, Cable Gland

PRESSURE RANGES:
Gauge: (GC51) 50 to 7500 psi,
(GC55) 75 to 300 psi
Compound: (GC51) -15 to 15 psi,
-15 to 30 psi, -15 to 50 psi
Differential (GC52):
Uni-directional: 4″ to 400″ in. H20
Bi-directional: +/-4″ to +/-400″ in. H20

PROOF PRESSURES:
GC51: 120% to 200% (Depends on range)
Static (Line) Proof: GC52: 300psi, GC55: 2X FS

OPERATING PROCESS TEMPERATURE:
14/122°F (-10/50°C) to 14/140°F (-10/60°C)

PROCESS MEDIA:
Wet/Wet, Fluid and Gases (check compatibility)

FEATURES:
Rangeable, GC52: Flow measurement / square root extraction

APPROVALS: GC51, GC52: CE

CE LOOK FOR THIS MARK ON OUR PRODUCTS

SWITCHES

PRESSURE & DP PRESSURE SWITCHES

MODEL: A, B, G, L series

ACCURACY:
A series: 2%
B, D, G, L-series: 1%

CASE MATERIAL:
A series: 304L SS
B, D & L series: epoxy coated die cast aluminum
G-series: 316L SS

ENCLOSURE RATING:
A & B, D series: NEMA 4X, 7, 9, IP66
G & L series: NEMA 4, 4X, IP66

ACTUATOR MATERIAL:
A-series: 316L SS
B, D, G, L series: Buna, Viton, Teflon, 316LSS

PROCESS CONNECTION:
A series: ⅛, ¼ NPT, 7/16-20 SAE
B, D, G,L series: ¼, ½ NPT

RANGE:
A series: vac to 200 PSI
B, GP, LP series: vac to 3000 PSI
D series 0 to 600 psid
GD, LD series 0 to 400 psid

OPERATING PROCESS TEMPERATURE:
A series: 0 to 200°F (-18 to 93°C)
B, D, G, L-series: 0 to 300°F (-18 to 149°C)
Varies by actuator material

APPROVALS:
A, G, L series: CSA, UL, CE, CRN
B, D series: CSA, UL, CE, FM, ATEX, IECEx, CRN, Dual seal

CSA CE FM APPROVED UL LISTED Ex
LOOK FOR THESE MARKS ON OUR PRODUCTS

TEMPERATURE SWITCHES

MODEL: T, G, L series

ACCURACY: 1%

CASE MATERIAL:
T & L series: epoxy coated die cast aluminum
G-series: 316L SS

ENCLOSURE RATING:
T series: NEMA 4X, 7, 9, IP66
G & L series: NEMA 4, 4X, IP66

THERMAL SYSTEMS:
316 SS direct mount
316 SS remote mount

PROCESS CONNECTION:
½ NPT direct mount

RANGE:
-40 to 750°F (-40 to 400°C)

APPROVALS:
CSA, UL, CE

CSA CE UL LISTED
LOOK FOR THESE MARKS ON OUR PRODUCTS

WEKSLER®

TEMPERATURE

ACCESSORIES

Temperature Instruments, Accessories for Air Conditioning, Heating & Refrigeration Industries

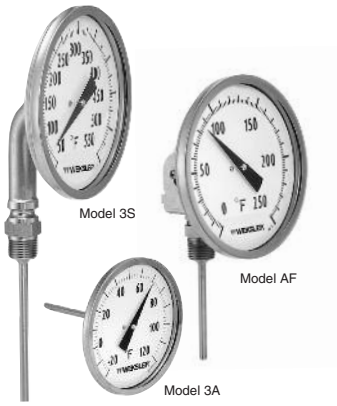
TEMPERATURE:

Weksler® bimetal and glass thermometers provide superior durability and dependability, precision temperature readings, 1% accuracy, hermetically sealed cases. Our bimetal thermometers can be externally calibrated and are available as tamper resistant.

ACCESSORIES:

When an instrument requires protection from damaging severe service applications Ashcroft offers an array of accessories.

BIMETAL THERMOMETER



MODEL:
Straight form 3S, 90° Back angle form 3A, Adjustable AF,

ACCURACY: 1% of scale range

DIAL SIZE: 3″ and 5″

STEM & BULB DESIGN:
Standard: rigid stem .250 dia.
Optional: .385 dia.

RECALIBRATOR: External recalibration adjustment.

SEALING DESIGN: Hermetically sealed

CONNECTION LOCATION:
Rear, lower or Everyangle™

CONNECTION SIZE:
½ NPT or ¼ NPT union

STEM LENGTHS: 2½″ - 24″ standard.

MOUNTING: Everyangle, rear or lower

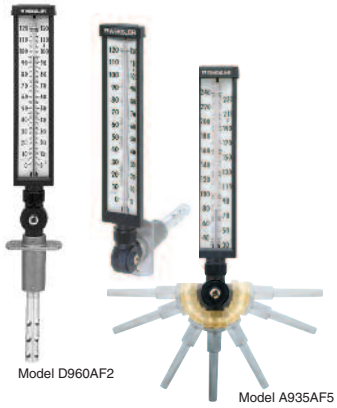
RANGES: -80 – 1000°F, -50 — 550°C

CASE & RING MATERIAL: Stainless steel

CASE & BULB MATERIAL: Stainless steel

WINDOW:
Standard: glass
Optional: plastic window or shatter proof glass

GLASS THERMOMETER



MODEL:
Adjustable angle thermometer, A935AF5
Air duct thermometer, D960AF2

ACCURACY: 1% full scale

CASE:
Molded Valox® V-shaped black case for ranges up to and including 300°F.
Die cast black aluminum V-shaped case for ranges above 300°F.

SCALE: White aluminum with bold black graduations and figures.

FILL: Mercury free blue liquid in glass with magnifying lens for easy readability.

STEM LENGTHS: 3½″, 6″, 9″ & 12″

CONNECTION SIZE & LOCATION:
½ NPT & ½ NPT Union Lower or Rear

MOUNTING:
Adjust angle: 1¼″-18″ NEF swivel nut.
Air duct: Protective slotted bulb guard, ¾″ diameter aluminum stem and 3″ diameter union flange
Adjustment: permits case and stem to be rotated 360°

RANGES: -40—110°F, - 50—550°F
-20 —45°C, 0—300°C

WINDOW: Glass front excludes dust and dirt

Thermowells are required whenever pressure, velocity or corrosive media exist. Using a thermowell allows you to remove your temperature instrument without shutting down the process. Standard thermowells are made from solid bar stock, in threaded, flanged, or weld configurations. Other materials and configurations are available. Traceability, a variety of testing processes and certifications are also available to meet all your needs.

Pulsation dampeners and snubbers protect the instrument from potential wear and damage to the instrument caused by process pulsation. Needle valves provide a means for varying the orifice to accommodate various process pulsation conditions.

Pressure limiting valves ensure positive, repeatable performance of the instrument by protecting it against overpressure or pressure surges beyond the range of the instrument. The device automatically shuts off when overpressure occurs and is restored when pressure falls below a preset value.