

**APPLICATIONS**

The GC31 utilizes Ashcroft's field proven thin film sensor which provides high cycle life and output stability, typically required in:

- Hydraulic presses, stamping equipment, lifts
- Tire press vulcanization, pressure monitoring
- Water, refrigerant or ammonia based cooling systems
- Pressure monitoring on lubrication systems

**FEATURES**

- Ultra-compact design 1.2" x 1.2" (30mm x 30mm)
- Combined three-in-one digital pressure gauge, switch and transducer
- Simple "Push-Button" configurability allows user to adjust switch settings, analog scaling
- Numerous standard ranges available


**PERFORMANCE SPECIFICATIONS**
**Analog Output (1-5Vdc):**

**Accuracy:**  $\pm 1.0\%$  Span  
(accuracy includes effects of linearity, hysteresis and repeatability)

**Response Time:** 50msec

**Output Resolution:** 25mV

**Analog Scaling:** User may configure analog output scaling to any range within full scale of sensor range

**Pressure Switch Output:**

**Type:** NPN or PNP open collector up to 30Vdc/80mA

**Setting Accuracy:**  $\pm 1.0\%$  Span

**Number of Contacts:** 2

**Time Delay:** 5 msec -2.0 sec (by user)

**Hysteresis:** Variable (by user)

**Switch Setting:** User may adjust switch actuation and deadband to any points within full scale sensor range

**Display:**

**Type:** 3½ digit, 10mm LED

**Accuracy:**  $\pm 1.0\%$  Span  $\pm$  last digit

**Display Setting:** User may re-configure display scaling, set to capture MIN or MAX value, and adjust display update rate

**PSI Ranges:**
**Standard Ranges (Gauge):**

0 to 50 psig, 100 psig, 150 psig, 300 psig, 500 psig, 1000 psig, 1500 psig

**Standard Ranges (Compound):**

-15 to 75 psig -15 to 150 psig, -15 to 300 psig

**ENVIRONMENTAL SPECIFICATIONS**
**Temperature Limits:**

**Storage:** -22 to 140°F (-30 to 60°C)

**Operating:** -4 to 140°F (-20 to 60°C)

**Compensated:** 14 to 122°F (-10 to 50°C)

**Temperature Effects:**

**Zero/Span:**  $\pm 0.03\%$  Span/F ( $\pm 0.05\%$  F.S./C) from 73°F (23°C) reference temperature

**Humidity:** 0-85% RH (Non-Condensing)

**FUNCTIONAL SPECIFICATIONS**

**Proof Pressure:** 2X range: 500 psi & below

1.5X range: 1000 psi & above

**Burst Pressure:** 8X range

**Approvals/Certifications:** CE, RoHS

**ELECTRICAL SPECIFICATIONS**
**Power Supply Requirements:**

**Supply Voltage:** 11-27Vdc

**Current Consumption:** 30mA (max)

**Switch Contacts:** (2) NPN or PNP open collector outputs

**NPN Type:** 30Vdc / 80mA (max)

**PNP Type:** voltage drop 1Vdc (max)/80mA (max)

**MECHANICAL SPECIFICATIONS**

**Pressure Connection:** ¼ NPT (Male)

**Enclosure:** ABS, polycarbonate, aluminum

**Environmental Rating:** IP40

**Electrical Connection:** 6ft (2m) cable pigtail

**Weight:** Approx. 110 grams

**Mounting:** Panel mounting bracket included (back connect only)

**Media:** Fluids and gases compatible with 304 SS (sensor housing) and 17-4 pH SS (sensor diaphragm)RTV

**TO ORDER THE GC31 ULTRA-COMPACT DIGITAL PRESSURE SENSOR:**

<b>G</b>	<b>C</b>	<b>3</b>	<b>1</b>	<b>7</b>				<b>F</b>	<b>4</b>					<b>X</b>		
Type (GC31)	Accuracy (7) $\pm 1.0\%$	Connection (M02L) ¼ NPT Male w/lower connect (M02B) ¼ NPT Male w/back connect		Output Signal (1N) 1-5Vdc: Analog w/2X NPN Type switches (1P) 1-5Vdc: Analog w/2X PNP Type switches	Electrical Connection (F4) 6' (2m) cable	Pressure Ranges Gauge: (50#G) 0/50 psig (100#G) 0/100 psig (150#G) 0/150 psig (300#G) 0/300 psig (500#G) 0/500 psig (1000#G) 0/1000 psig (1500#G) 0/1500 psig Compound: (75#&V) -15 to 75 psig (150#&V) -15 to 150 psig (300#&V) -15 to 300 psig				Options XRH 9 pt. NIST traceable calibration certificate						

### APPLICATIONS

The GC35 utilizes Ashcroft's field proven thin film sensing technology in a design to provide exceptional overpressure and cycle life, typically required in:

- Hydraulic presses, stamping equipment, lifts
- Water/wastewater pressure control
- Water, refrigerant or ammonia based cooling systems
- Pressure monitoring on lubrication systems

### PERFORMANCE SPECIFICATIONS

#### Analog Output (4-20mA):

**Accuracy:** ± 1.0% Span (Accuracy includes the effects of linearity, hysteresis, repeatability, zero offset and span setting errors)

**Response Time:** 30msec–10sec (by user)

**Output Resolution:** ±0.05% Span

**Analog Scaling:** User may configure analog output scaling to any range within –100 to +150% Full Scale of the sensor range

#### Pressure Switch Output:

**Type:** NPN or PNP open collector up to 80ma

**Setting Accuracy:** ±1.0% Span

**Response Time:** 5msec – 10.0 sec (by user)

**Hysteresis:** Variable (by user)

**Switch Setting:** User may adjust switch actuation and deadband to any points within Full Scale sensor range

#### Display:

**Type:** 4 digit, 8mm LED

**Accuracy:** ±1.0% Span (URL) + last digit

**Display Update Rate:** 200msec–10.0 sec (by user)

**Display Setting:** User may re-configure display scaling, set to capture MIN or MAX value and adjust display update rate

#### Standard Ranges (Gauge):

0 to 50 psig, 100 psig, 150 psig, 300 psig, 500 psig, 1000 psig, 1500 psig, 3000 psig, 5000 psig, 7500 psig

#### Standard Ranges (Compound):

–15 to 75 psig, –15 to 150 psig –15 to 300 psig,

### ENVIRONMENTAL SPECIFICATIONS

#### Temperature Limits:

**Storage:** –20 to 70°C (–4 to 158°F)

**Operating:** –20 to 70°C (–4 to 158°F)

**Compensated:** –20 to 70°C (–4 to 158°F)

#### Temperature Effects:

**Zero/Span:** ±0.1%Span/°C (from 23°C reference temp.)

**Humidity:** 0-85% RH (Ranges 150 psi & below)  
0-100% RH (Ranges 300 psi & above)

### FEATURES

- Combined 3-in-1 digital pressure gauge, switch and transducer
- High overpressure capability
- All stainless steel wetted materials
- Simple “Push-Button” configurability allows user to adjust switch settings, analog scaling
- Rugged aluminum housing

### FUNCTIONAL SPECIFICATIONS

#### Proof Pressure:

4X Range (ranges 1500 psi & below)  
2.5X Range (ranges 3000 psi & above)

#### Burst Pressure:

10X Range (ranges 1500 psi & below)  
5X Range (ranges 3000 psi & below)  
3X Range (ranges 5000 psi & above)

**Withstand Voltage:** 350Vac 1 minute

**Insulation Voltage:** 50Vdc 100MV min

**Approvals/Certifications:** CE, RoHS

**Stability:** ±0.25% Span/year

### ELECTRICAL SPECIFICATIONS

#### Power Supply Requirements:

**Supply Voltage:** 16-36Vdc (with analog output option)  
11-36Vdc (switch output version only)

**Current Consumption:** 50mA max

#### Switch Contacts:

User selectable NPN or PNP open collector outputs

NPN Type: 30Vdc / 80mA (max)

PNP Type: Supply Voltage 80mA (max)

Voltage Drop 1Vdc (max)

### MECHANICAL SPECIFICATIONS

**Pressure Connection:** ¼ NPT (Male)

**Connection Location:** Lower, back

**Enclosure:** Nickel plated aluminum

**Environmental Rating:** IP65 (ranges 150 psi and below); IP67 (ranges 300 psi and above)

**Electrical Connection:** M12 connector (4 pin)

**Weight:** Approx. 150 grams

**Media:** Fluids and gases compatible with 316SS pressure connection and 17-4pH SS (sensor diaphragm)



### TO ORDER THE GC35 ULTRA-COMPACT DIGITAL PRESSURE SENSOR:

<b>G</b>	<b>C</b>	<b>3</b>	<b>5</b>	<b>7</b>			<b>E</b>	<b>W</b>				<b>X</b>			
Type (GC35)	Accuracy (7) ±1.0%	Connection (M02L) ¼ NPT Male w/lower connect (M02B) ¼ NPT Male w/back connect		Output Signal (41) 4-20mA & 1X switch (N2) 2X switch (no 4-20mA output)	Electrical Connection* (EW) M12 Type (4 pin)	Pressure Ranges Gauge:				Options XRH Traceable 9 Point Calibration Report					
						(50#G) 0/50 psig	(100#G) 0/100 psig	(150#G) 0/150 psig	(300#G) 0/300 psig	(500#G) 0/500 psig	(1000#G) 0/1000 psig	(1500#G) 0/1500 psig	(3000#G) 0/3000 psig	(5000#G) 0/5000 psig	(7500#G) 0/7500 psig.
						Compound:									
						(75#&V) –15 to 75 psig	(150#&V) –15 to 150 psig	(300#&V) –15 to 300 psig							

\*To obtain M12 mating connection (3 ft.)  
order part number 611C175-03.

Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at [www.ashcroft.com](http://www.ashcroft.com)

**APPLICATIONS**

The GC51 utilizes Ashcroft's proven polysilicon thin film sensor which makes the design suitable for applications where high overpressure and high cycle life are necessary, typically required in:

- Pump Control
- Hydraulic Systems
- Compressor Control
- Process Automation
- Municipal Water Tank Level

**FEATURES**

- Up to 8 times smaller than a conventional process transmitter
- Robust NEMA 4X (IP65) aluminum die cast housing
- Bright backlit 4 digit LCD display
- All stainless steel wetted parts
- 2 wire 4-20mA
- Internal "Push Button" configurability allows quick range changes
- Scaling function allows display to indicate arbitrary physical units
- "Loop Check" function allows unit to output 4-20mA without applying pressure
- "Min / Max Hold" function allows display to capture pressure events
- Easily rotatable display, 90° increments
- Key lock



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**PERFORMANCE SPECIFICATIONS**

**Reference Condition:** 23°C ±2° (73°F)

**Accuracy:** ±0.25% Span (URL)

(Accuracy includes the effects of linearity, hysteresis, and repeatability)

**Stability:** ±0.25% Span/year

**Response Time:** 30msec (user adjustable)

**Output Resolution:** 0.1% Span (URL)

**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

**ENVIRONMENTAL SPECIFICATIONS**

**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 (14 to 140°F)  
±0.02% FS (URL)/°C from 23°C reference

**FUNCTIONAL SPECIFICATIONS**

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

**ELECTRICAL SPECIFICATIONS**

**Output Signal:** 4-20mA (2 Wire)

**Supply Voltage:** 12-32Vdc

**Rangeability / Adjustment\*:**

Zero -10% to +110% Span

Span -10% to +110% Span

\*Note: Accuracy and output resolution based upon full scale (URL) value

**Insulation Resistance:** 50Vdc (>100Mohms)

**Approvals/Certifications:** CE

**MECHANICAL SPECIFICATIONS**

**Pressure Connection:** ¼ Female NPT

**Enclosure:** Aluminum

**Environmental Rating:** IP65 / NEMA 4X

**Electrical Connection (Options):**

- ½" 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

**TO ORDER THE GC51 PRESSURE TRANSMITTER:**

<b>GC51</b>	<b>7</b>					<b>X</b>
Type Configuration (GC51)	Accuracy (7) ±0.25% FS	Pressure Fitting (F02) ¼" FNPT	Output Signal (42) 4-20mA	Electrical Connection (CG) = Cable Guard (CD) = ½" FNPT Conduit	Pressure Ranges (Compound) 15#&VACG = Vac-15psi 30#&VACG = Vac-30psi 50#&VACG = Vac-50psi Pressure Ranges (Gauge) 50# = 50 psi 100# = 100 psi 150# = 150 psi 300# = 300 psi 500# = 500 psi 1000# = 1000 psi 1500# = 1500 psi 3000# = 3000 psi 5000# = 5000 psi 7500# = 7500 psi	Optional X-Variations XRH 9 pt. NIST traceable calibration certificate XGB Oxygen cleaned

### APPLICATIONS

The GC55 utilizes two polysilicon thin film sensors to achieve a wet-wet, high differential, pressure measurement. Fully welded assembly of all stainless steel with high overpressure capability makes the GC55 ideal for pump systems in applications such as:

- Level measurement in large size and/or pressurized tanks
- Pump monitoring of building hydronic heating and cooling systems
- Filter monitoring in water purification or hydraulic systems

### FEATURES

- Robust aluminum die cast housing
- Bright LED display of pressure and switch status
- All stainless steel wetted parts
- 4-20mA or 1-5Vdc outputs
- Internal "Push-Button" configurability allows quick user pressure range changes or relay adjustments
- External "Push-Button" allows user to display P1, P2 or DP without opening cover
- Two sensor design well suited for high DP ranges



### PERFORMANCE SPECIFICATIONS

#### Analog Output (4-20mA or 1-5Vdc):

Accuracy:  $\pm 0.5\%$  Span (Accuracy includes the effects of Linearity, Hysteresis and Repeatability)  
Response Time: 20msec  
Output Resolution: 0.2% Span  
Stability:  $\pm 0.5\%/yr$

#### Pressure Switch Output:

Type: TTL/CMOS up to 40Vdc/200mA  
Setting Accuracy:  $\pm 1.0\%$  Span  
Number of Contacts: 2  
Response Time: 20msec – 2.0 sec (by user)  
Hysteresis: Variable (by user)

#### Display:

Type: 3½ digits  
Accuracy:  $\pm 1.0\%$  Span

#### Standard Ranges (Differential):

75psi  
100psi      250psi  
150psi      300psi

### ENVIRONMENTAL SPECIFICATIONS

#### Temperature Limits:

Storage:  $-20$  to  $60^\circ\text{C}$  ( $-4$  to  $140^\circ\text{F}$ )  
Operating:  $-10$  to  $50^\circ\text{C}$  ( $14$  to  $122^\circ\text{F}$ )  
Compensated:  $-10$  to  $50^\circ\text{C}$  ( $14$  to  $122^\circ\text{F}$ )  
Temperature Effects:

Zero/Span:  
 $\pm 0.05\%$ Span/ $^\circ\text{C}$  (from  $23^\circ\text{C}$  reference temperature)

### FUNCTIONAL SPECIFICATIONS

#### Static (Line) Pressure:

Pressure Range	Proof	Burst
All	2X F.S. (URL)	10X F.S. (URL)

Static (Line) Pressure Effects: None

#### Single Side (Differential Limits):

Pressure Range	Proof	Burst
All	2X F.S. (URL)	10X F.S. (URL)

### ELECTRICAL SPECIFICATIONS

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

Switch Contacts: (2) Photo MOS relay outputs; Load 200mA (max), 40Vdc; Hysteresis (variable)

#### Rangeability / Adjustment\*:

Zero  $-105\%$  to  $+105\%$  Span  
Span  $-105\%$  to  $+105\%$  Span

\*Note: Accuracy based upon full scale (URL) value

### MECHANICAL SPECIFICATIONS

Pressure Connection: ½" Female NPT (2)

Enclosure: Aluminum

Environmental Rating: IP66

Electrical Connection:

- External Options:
- ½" Female NPT Conduit
  - Cable Gland (Cable Diameters 0.16" to 0.31")

Weight: Approx. 1.0 lb

Mounting: (2) 5.2mm mounting holes (see installation drawings)

Media: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)

### TO ORDER THE GC55 PRESSURE TRANSDUCER:

<b>GC55</b>	<b>7</b>					<b>X</b>
Type Configuration (GC55)	Accuracy (7) $\pm 0.50\%$	Pressure Fitting (F01) ½" FNPT	Output Signal (15) 1-5Vdc (42) 4-20mA	Electrical Connection (CG) = Cable Guard (CD) = ½" FNPT Conduit	Pressure Range Differential* 75# = 75 psi 100# = 100 psi 150# = 150 psi 250# = 250 psi 300# = 300 psi	Optional X-Variations XRH 9 pt. NIST traceable calibration certificate

\*Note: Maximum operating static (line) pressure is equal to the pressure range (URL) of the unit ordered.

## Model GC30 Ultra-Compact Digital Differential Pressure Sensor

### APPLICATIONS

The GC30 utilizes Ashcroft's proven, typically required in:

- Filter monitoring
- Clean room pressure differential
- Vacuum/suction pressure sensing and control
- Fan speed control

### FEATURES

- Ultra-compact design 1.2" x 1.2" (30mm x 30mm)
- Combined three-in-one digital pressure gauge, switch and transducer
- Simple "Push-Button" configurability allows user to adjust switch settings, analog scaling
- Numerous standard ranges available



### PERFORMANCE SPECIFICATIONS

#### Analog Output (1-5Vdc):

**Accuracy:**  $\pm 1.5\%$  Span (accuracy includes effects of linearity, hysteresis and repeatability)

**Response Time:** 50msec

**Output Resolution:** 25mV

**Analog Scaling:** User may configure analog output scaling to any range within full scale of sensor range

#### Pressure Switch Output:

**Type:** NPN or PNP open collector up to 30Vdc/80ma

**Setting Accuracy:**  $\pm 1.5\%$  Span

**Number of Contacts:** 2

**Time Delay:** 5 msec -2.0 sec (by user)

**Hysteresis:** Variable (by user)

**Switch Setting:** User may adjust switch actuation and deadband to any points within full scale sensor range

#### Display:

**Type:** 3½ digit, 10mm LED

**Accuracy:**  $\pm 1.5\%$  Span + last digit

**Display Setting:** User may re-configure display scaling, set to capture MIN or MAX value, and adjust display update rate

#### Inches of Water Column ("W.C.) Ranges:

##### Standard Ranges (Gauge):

0 to 0.25" W.C., 0.50" W.C., 1.0" W.C., 2.5" W.C., 5.0" W.C., 10" W.C., 25" W.C.

##### Standard Ranges (Compound):

$\pm 0.25$ " W.C.,  $\pm 0.50$ " W.C.,  $\pm 1.0$ " W.C.,  $\pm 2.5$ " W.C.,  $\pm 5.0$ " W.C.,  $\pm 10$ " W.C.,  $\pm 25$ " W.C.i

### ENVIRONMENTAL SPECIFICATIONS

#### Temperature Limits:

**Storage:** -22 to 140°F (-30 to 60°C)

**Operating:** -4 to 140°F (-20 to 60°C)

**Compensated:** 14 to 122°F (-10 to 50°C)

#### Temperature Effects:

**Zero/Span:** (from 73°F/23°C reference temperature)  
 $\pm 0.09\%/^{\circ}\text{F}$  ( $\pm 0.15\%/^{\circ}\text{C}$ )  $\pm 2.5$ " W.C., 0/2.5" W.C. and below  
 $\pm 0.06\%/^{\circ}\text{F}$  ( $\pm 0.10\%/^{\circ}\text{C}$ )  $\pm 5.0$ " W.C., 0/5.0" W.C. and above

### FUNCTIONAL SPECIFICATIONS

**Proof Pressure:** 7.5psid (50kPa)

**Burst Pressure:** 25psig (170kPa)

**Max Static (Line) Pressure:** 7.5psi (50kPa)

**Approvals/Certifications:** CE, RoHS

### ELECTRICAL SPECIFICATIONS

#### Power Supply Requirements:

**Supply Voltage:** 11-27Vdc

**Current Consumption:** 30mA (max)

**Switch Contacts:** (2) NPN or PNP open collector outputs

**NPN Type:** 30Vdc / 80mA (max)

**PNP Type:** voltage drop 1Vdc (max)/80mA (max)

### MECHANICAL SPECIFICATIONS

**Pressure Connection:** 4mm barb

**Enclosure:** ABS, polycarbonate, aluminum

**Environmental Rating:** IP40

**Electrical Connection:** 6ft (2m) cable pigtail

**Weight:** Approx. 75 grams

**Mounting:** Panel mounting bracket included

**Media:** Clean, dry air/gases compatible with Aluminum, ABS, Ceramic, Silicon, and Silicone RTV

### TO ORDER THE GC30 ULTRA-COMPACT DIGITAL DIFFERENTIAL PRESSURE SENSOR:

<b>GC30</b>	<b>9</b>	<b>M5B</b>		<b>F4</b>		<b>X</b>
Type (GC30)	Accuracy (9) $\pm 1.5\%$	Connection (M5B) 4mm ID Barb	Output Signal (1N) 1-5Vdc: Analog w/2X NPN Type switches (1P) 1-5Vdc: Analog w/2X PNP Type switches	Electrical Connection (F4) 6' (2m) cable	Pressure Ranges Diff. or Gauge: (P25IW) 0.25" W.C. (P5IW) 0.50" W.C. (1IW) 1.0" W.C. (2P5IW) 2.5" W.C. (5IW) 5.0" W.C. (10IW) 10" W.C. (25IW) 25" W.C. Compound: (P25IWL) $\pm 0.25$ " W.C. (P5IWL) $\pm 0.50$ " W.C. (1IWL) $\pm 1.0$ " W.C. (2IWL) $\pm 2.5$ " W.C. (5IWL) $\pm 5.0$ " W.C. (10IWL) $\pm 10$ " W.C. (25IWL) $\pm 25$ " W.C.	Optional X-Variations XRH 9 pt. NIST traceable calibration certificate X6B Oxygen cleaned

Consult factory for guidance in product selection  
 Phone (203) 378-8281 or visit our  
 web site at [www.ashcroft.com](http://www.ashcroft.com)

## Model GC52 Rangeable Wet/Wet Differential Pressure Transmitter

### APPLICATIONS

The GC52 utilizes Ashcroft's proven Si-Glas™ silicon variable capacitance sensor technology in a wet-wet package ideal for applications where reliable, low differential pressure measurement is required with line (static) pressure to 300 psi.

Applications include:

- Pressurized & non-pressurized tank levels
- Flow (liquid/gas) measurement

### FEATURES

- Up to 8 times smaller than a conventional process transmitter
- Robust NEMA 4X (IP65) aluminum die cast housing
- Bright backlit 4 digit LCD display
- 2 Wire 4-20mA
- Flow measurement and totalization (square root extraction)
- Internal "Push Button" configurability allows quick range changes
- Scaling function allows display to indicate arbitrary physical units
- Easily rotatable display, 90° increments
- Square root extractions for flow measurements
- Key lock



### PERFORMANCE SPECIFICATIONS

Reference Condition: 23°C ±2° (73°F)

Accuracy: ±0.50% Span (URL)  
(Accuracy includes the effects of linearity, hysteresis, and repeatability)

Stability: ±0.25% Span/year

Response Time: 100msec (user adjustable)

Output Resolution: 0.1% Span (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

### ENVIRONMENTAL SPECIFICATIONS

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))

### FUNCTIONAL SPECIFICATIONS

Static (Line) Pressure:

Pressure Range	Proof	Burst
All	300 psi	800 psi

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

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

### ELECTRICAL SPECIFICATIONS

Output Signal: 4-20mA (2 Wire)

Supply Voltage: 12-32Vdc

Rangeability / Adjustment\*:

Zero -10% to +110% Span

Span -10% to +110% Span

\*Note: Accuracy and output resolution based upon full scale (URL) value

Insulation Resistance: 50Vdc (>100Mohms)

Approvals/Certifications: CE

### MECHANICAL SPECIFICATIONS

Pressure Connection: 1/4" Female NPT

Enclosure: Aluminum

Environmental Rating: IP65 / NEMA 4X

Electrical Connection:

External 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,  
Viton and Alumina Ceramic

### TO ORDER THE GC52 PRESSURE TRANSMITTER:

<b>GC52</b>	<b>7</b>					<b>X</b>
Type Configuration (GC52)	Accuracy (7) ±0.50% Span	Pressure Fitting (F02) 1/4" FNPT	Output Signal (42) 4-20mA	Electrical Connection (CG) = Cable Gland (CD) = 1/2" FNPT Conduit	Pressure Ranges (Compound/Bidirectional) 4IWL = ±4" W.C. 8IWL = ±8" W.C. 20IWL = ±20" W.C. 40IWL = ±40" W.C. 80IWL = ±80" W.C. 200IWL = ±200" W.C. Pressure Range (Differential Gauge) 4IW = 0-4" W.C. 8IW = 0-8" W.C. 20IW = 0-20" W.C. 40IW = 0-40" W.C. 80IW = 0-80" W.C. 200IW = 0-200" W.C. 400IW = 0-400" W.C.	Optional X-Variations XRH 9 pt. NIST traceable calibration certificate

Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at [www.ashcroft.com](http://www.ashcroft.com)