

# Model GC35 Digital Pressure Sensor

## 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

## APPLICATIONS:

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

GloBand™ Display, full 360° visibility



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User configurable LED light ring changes color with switch set points

## PRODUCT SPECIFICATIONS

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

**Accuracy:** ±1,0 % F.S. (accuracy includes effects of linearity, hysteresis, repeatability, zero offset and span setting errors)

**Response Time:** 30 ms up to 10 s (by user)

**Output Resolution:** ±0,05 % F.S.

**Analog Scaling:** User may configure analog output scaling to any range within -100 % to 150 % full scale of sensor range

### Pressure Switch Output:

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

**Setting Accuracy:** ±1,0 % F.S.

**Response Time:** 5 ms up to 10 s (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, 10 mm LED

**Accuracy:** ±1,0 % F.S. (URL) ± last digit

**Display Update Rate:** 200 ms up to 10 s (by user)

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

## Metric Ranges in bar:

4 6 10 16 25 40 60 100 160 250 400 600

## Metric Compound Ranges in bar:

-1/4 -1/6 -1/10

## Standard Ranges (Gauge) in psi:

50 100 150 300 500 1000 1500 3000  
5000 7500

## Standard Ranges (Compound) in psi:

-15/75 -15/150 -15/300

## 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: (from 23 °C (73 °F) reference temperature) ±0,1 %/K

**Humidity:** 0-85 % RH (ranges ≤ 10 bar / 150 psi)

0-100 % RH (ranges ≥ 16 bar / 300 psi)

## FUNCTIONAL SPECIFICATIONS

### Proof Pressure:

400 % F.S. (ranges ≤ 100 bar / 1500 psi)

250 % F.S. (ranges ≥ 160 bar / 3000 psi)

### Burst Pressure:

1000 % F.S. (ranges ≤ 100 bar / 1500 psi)

500 % F.S. (ranges 160 bar, 250 bar / 3000 psi)

300 % F.S. (ranges ≥ 400 bar / 5000 psi)

**Withstand Voltage:** 350 VAC, 1 min

**Insulation Voltage:** 50 VDC, 100 MΩ min.

### CE Compliance:

EN 61326-1: 2006, EN 61326-2-3: 2006

EU RoHS Compliance

**Stability:** ±0,25 % F.S./year

## ELECTRICAL SPECIFICATIONS

### Power Supply Requirements:

Supply voltage: 16-36 VDC (with analog output option), 11-36 VDC (switch output version only)

Current consumption: 50 mA (max.)

### Switch Contacts:

User selectable NPN or PNP open collector outputs

NPN Type: 30 VDC/80 mA (max.)

PNP Type: sensor supply voltage / 80 mA (max.), voltage drop 1 VDC (max.)

## MECHANICAL SPECIFICATIONS

### Pressure Connection:

G ¼ B male according EN 837-1, G ¼ A male according DIN 3852 Part 11 Form E, ¼ NPT male according ANSI/ASME B1.20.1/EN 837-1

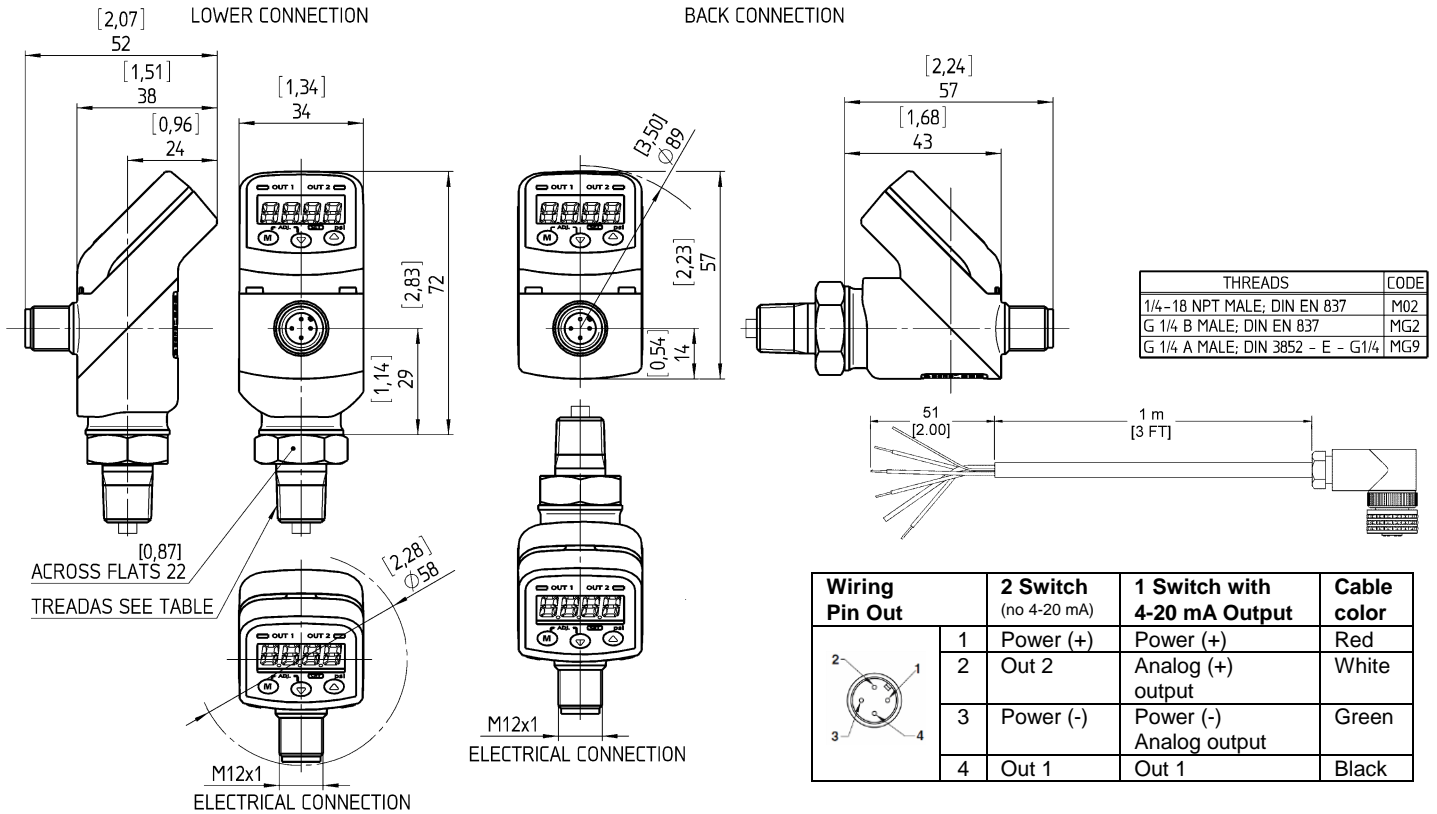
**Enclosure:** Nickel plated aluminum

**Rating:** IP65 (≤ 10 bar) / IP67 (> 10 bar)

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

**Weight:** Approx. 150 g

**Media:** Fluids and gases compatible with stainless steel 316 (1.4401) (sensor housing) and stainless steel 17-4 pH (1.4542/1.4548) (sensor diaphragm)

**General dimensions in mm [inch]**

**Order information**

Type	Accuracy	Process connection	Output signal	Electrical connection	Range	Eng. unit	Options									
GC35	(7) 1,0 %	(M02L) ¼ NPT male, lower connect	(41) 4-20 mA analog output with 1 switch	(EW) M12 without connector	Compound: 75#&V -15/75 150#&V -15/150 300#&V -15/300	psi	(NH) Tagging wired									
		(M02B) ¼ NPT male, back connect						(N2) No analog output, 2 switches	4BR&V -1/4 6BR&V -1/6 10BR&V -1/10	bar	(CD4S) 3 point calibration certificate					
		(MG2L) G ¼ B male acc. EN 837-1, lower connect	50#G 50 100#G 100 150#G 150 300#G 300 500#G 500 1000#G 1000 1500#G 1500 3000#G 3000 5000#G 5000 7500#G 7500									psi	(RH) 9 point traceable calibration certificate			
		(MG2B) G ¼ B male, acc. EN 837-1, back connect												4BRG 4 6BRG 6 10BRG 10 16BRG 16 25BRG 25 40BRG 40 60BRG 60 100BRG 100 160BRG 160 250BRG 250 400BRG 400 600BRG 600	bar	
		(MG9L) G ¼ A male acc. DIN 3852 form E, lower connect														To obtain M12 mating connector with 1 meter cable order part number 611C175-03
		(MG9B) G ¼ A male, acc. DIN 3852 form E, back connect														

**Order example**

Type	Accuracy	Process connection	Output signal	Electrical connection	Range	Engineering unit	Options
GC35	7	MG9L	41	EW	10	BAR	RH

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