

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

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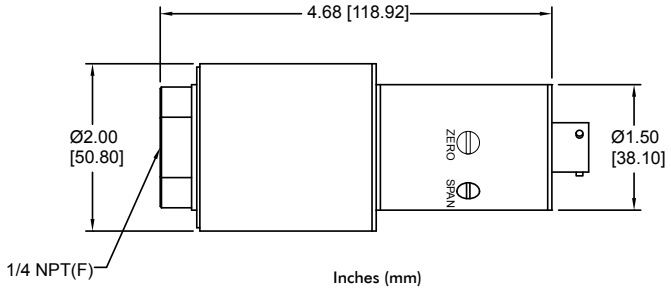
MODEL 210/310

LOW RANGE PRESSURE TRANSDUCER / TRANSMITTER



STANDARD WIRING

WIRE	MODEL 210	MODEL 310
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C
6/BRN	N/C	N/C



Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

The GP:50 Model 210/310 Series provides a high accuracy, low pressure sensor with high proof pressure. With ranges as low as 0 to 5" WC the standard unit provides proof pressures to 500 PSI with an optional ±0.05% FSO static accuracy.

FEATURES:

- Ranges from 0 to 5" WC thru 0 to 200 PSI, PSIA (64 mm WC to 14 BAR)
- 500 PSI proof pressure for all ranges (35 BAR)
- Welded 316 stainless steel wetted parts, no seals
- Optional improved accuracy <±0.05% FSO
- Gauge, vacuum or absolute format
- Wet-wet gauge design

APPLICATIONS:

- Laboratory
- Pressure decay systems
- Engine test stands
- Emission test stands
- HVAC

OPTIONS:

- Improved static accuracy to ±0.05% FSO
- Optional process and electrical connections
- Zero and span adjust
- Shunt calibration

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GP:50 MODEL 210/310

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal: @ +70 °F	(210) 0 to 5 Vdc, 0 to 10 Vdc (310) 4-20 mA
Excitation Voltage:	8.0 to 32 Vdc
Load Impedance:	(210) ≤10K Ω (310) 750 Ω max.
Circuit Protection:	EMI and RFI, reverse polarity
Response Time:	Typ 35 ms for 90% FSO

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316 stainless steel (Hastelloy optional)
Housing:	300 Series stainless steel
Internal Fill:	Silicone oil filled (Krytox and other options available)

ACCURACY Non-Linearity & Repeatability @ +70 °F (BFSL)	
Standard:	±0.5% FSO
Improved:	±0.2% FSO, ±0.1% FSO, ±0.05% FSO
Zero & Span Balance:	Adjustable to ±10%

MECHANICAL	
Process Connection:	¼" NPT (F) (options available)
Electrical Connection:	36" long PVC Jacketed cable, 4-conductor, 22 AWG with strain relief
Proof Pressure:	500 PSI (35 BAR)
Burst Pressure:	2K PSI (138 BAR) Optional 5K PSI optional (345 BAR)
Approximate Weight:	<1 lb (0.5 kg)
*Orientation Shift (90°):	Typ 10-20%, Range Dependent

PRESSURE RANGES
5" WC thru 200 PSI, PSIA (14 BAR)

THERMAL SPECIFICATIONS	
Operating Range:	0 °F to +185 °F (-17 °C to +85 °C) (Unit will operate to -40 °F with delayed response time)
Compensated Range:	+32 °F to +180 °F (0 °C to +82 °C)
Storage Ambient:	-65 °F to +250 °F (-54 °C to +121 °C)
Effect on Zero/Span:	±1.0% FSO/100 °F (Improved options: ±0.5 to ±0.25% FSO/100 °F

INDUSTRIAL

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All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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