

## 3510 Series

### Compact Low Pressure OEM Pressure Transmitters

- ▶ 0–5 to 0–870 psi pressure ranges (0–0.35 to 0–60 bar)
- ▶ Choice of outputs, electrical connections and pressure ports
- ▶ Operating temperature from -40°C to +100°C (-40°F to +212°F)

For OEMs that need consistent high levels of performance, reliability and stability the 3510 Series units offer a small package size with all stainless steel wetted parts at an unbeatable price performance ratio. A wide choice of electrical outputs as well as both electrical and pressure connections means the unit is suitable for most applications without modification. The compact construction of the 3510 Series makes it ideal for installation where space is at a premium.



### Specifications

<b>Input</b>	
<b>Pressure Range</b>	0–5 to 0–870 psi (0–0.35 to 0–60 bar)
<b>Proof Pressure</b>	2×
<b>Burst Pressure</b>	3×
<b>Performance</b>	
<b>Long Term Drift</b>	<0.2% FS/YR
<b>Accuracy</b>	±0.5% FS Typ. ±1%
<b>Thermal Error, Max.</b>	±1% / 176°F (80°C)
<b>Compensated Temperatures</b>	-25°C to +85°C (-13°F to +185°F)
<b>Operating Temperatures</b>	-40°C to +100°C (-40°F to +212°F)
<b>Zero Tolerance, Max.</b>	±1% of span
<b>Span Tolerance, Max.</b>	±1% of span
<b>Response Time</b>	5 ms
<b>Fatigue Life</b>	>10 x 10 <sup>6</sup>
<b>Mechanical Configuration</b>	
<b>Pressure Port</b>	See under “How to Order,” last page
<b>Wetted Parts</b>	316L Stainless Steel
<b>Electrical Connection</b>	See under “How to Order,” last page
<b>Ingress Protection</b>	IP65 (Connector Codes B, F, & G) IP67 (Connector Codes E & 9)
<b>Vibration</b>	Sine curve 20g, 25Hz–2kHz; IEC 60068-2-6 Random 7.5grms, 5Hz–1kHz; IEC 60068-2-64
<b>Shock</b>	Shock: 100g/11ms; IEC 60068-2-6 Free fall: 1m; IEC 60068-2-32
<b>EMC</b>	IEC 61000-6-3/IEC 61000-6-2
<b>Approvals</b>	CE, RoHS
<b>Weight</b>	1.23 to 1.9 ounces (35-53 grams). Configuration dependant

### Individual Specifications

<b>Voltage</b>	
<b>Output</b>	0V min. to 10V max. See under “How to Order,” last page
<b>Supply Voltage (Vs)</b>	2 Volts above full scale to 30 VDC (24 VDC, max. above 230°F (110°C) applications) 8-30 VDC for output Options H, N, and R
<b>Source and Sinks</b>	8 mA
<b>Current</b>	
<b>Output</b>	4–20 mA
<b>Supply Voltage (Vs)</b>	10–30 VDC (24 VDC, max. above 230°F (110°C) applications)
<b>Maximum Load Resistance</b>	(Supply Voltage – 10) × 50 Ω
<b>Ratiometric</b>	
<b>Output</b>	0.5–4.5 V
<b>Supply Voltage (Vs)</b>	5 VDC ±10%

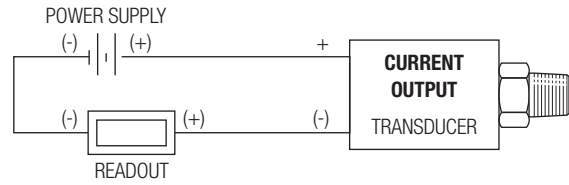
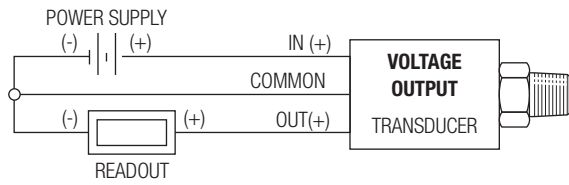
## Pressure Ports

	1/8"-27 NPT	1/4"-18 NPT	G 1/4" A Integral Face Seal	R 1/4"	7/16"-20 UNF
Dimensions in mm					
Fitting Code	08	02	05	0A	1G
Torque	15-25 NM	15-25 NM	15-25 NM	15-25 NM	15-25 NM

Additional pressure ports available. Contact factory.  
 \* NPT Threads 2-3 turns from finger tight. Wrench tighten 2-3 turns.

- General Notes:
1. The diameter of the housing is 21.5mm (0.88")
  2. Hex is 22 mm (0.886") Across Flats (A/F) for deep socket mounting
  3. O-rings are not included except for Port option 05

## Wiring Diagram



PRESSURE TRANSDUCERS

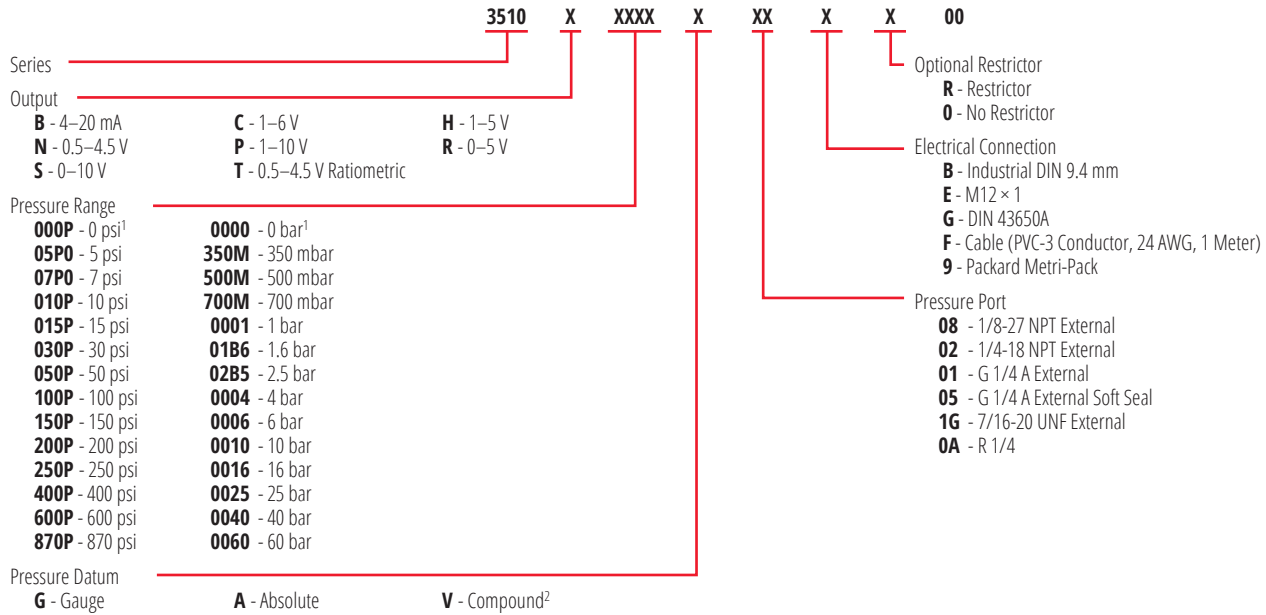
Electrical Connector

M12			Mini DIN		DIN 43650A		Packard Metri-Pack	
Code E			Code B		Code G		Code 9	
Pin #	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode
1	V <sub>supply</sub>	Supply	V <sub>supply</sub>	Supply	V <sub>supply</sub>	Supply	V <sub>supply</sub>	Supply
2	V <sub>out</sub>	Return	Ground	Return	Ground	Return	Ground	Return
3	Ground	No Connect	V <sub>out</sub>	No Connect	V <sub>out</sub>	No Connect	V <sub>out</sub>	No Connect
4	—	No Connect	No Connect	No Connect	No Connect	No Connect	—	—

Cable		
Code F		
Wire Color	Voltage Mode	Current Mode
Red	V <sub>supply</sub>	Supply
Green	Ground	Return
Yellow	V <sub>out</sub>	—

## How to Order

Use the **bold** characters from the chart below to construct a product code



Notes:

1. Compound only.
2. Compound versions extend the pressure range on the low end to -15 psig or -1 barG respectively. Compound versions measure Gauge pressure only.