



PRODUCT

DATA SHEET

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

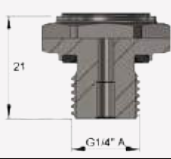
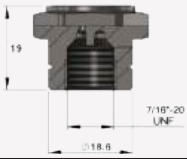
Input	
Pressure Range	0–5 to 0–870 psi (0–0.35 to 0–60 bar)
Proof Pressure	2×
Burst Pressure	3×
Performance	
Long Term Drift	<0.2% FS/YR
Accuracy	±0.5% FS Typ. ±1%
Thermal Error, Max.	±1% / 176°F (80°C)
Compensated Temperatures	-25°C to +85°C (-13°F to +185°F)
Operating Temperatures	-40°C to +100°C (-40°F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

Individual Specifications

Voltage	
Output	0V min. to 10V max. See under "How to Order," last page
Supply Voltage (Vs)	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
Source and Sinks	8 mA
Current	
Output	4–20 mA
Supply Voltage (Vs)	10–30 VDC (24 VDC, max. above 230°F (110°C) applications)
Maximum Load Resistance	(Supply Voltage – 10) × 50 Ω
Ratiometric	
Output	0.5–4.5 V
Supply Voltage (Vs)	5 VDC ±10%



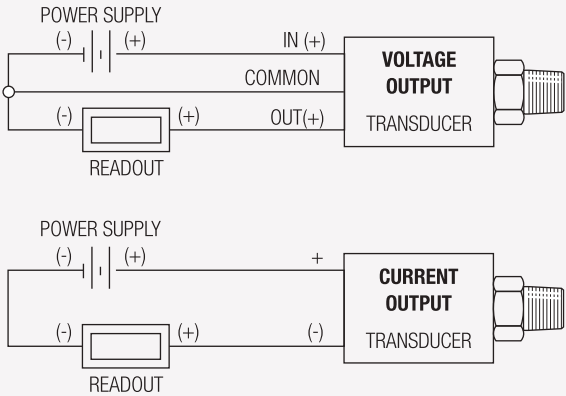
Pressure Ports

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

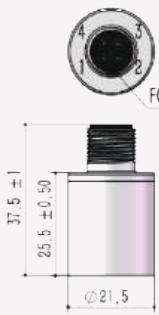
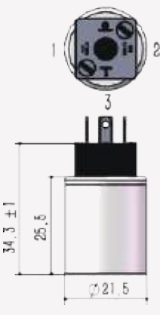
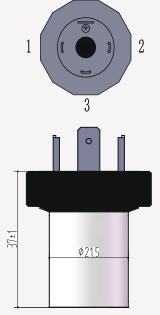
Additional pressure ports available. Contact factory.
* NPT Threads 2-3 turns from finger tight. Wrench tighten 2-3 turns.

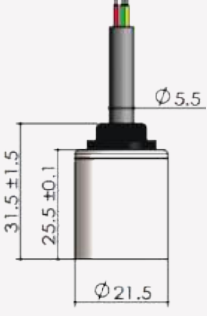
- General Notes:
- 1. The diameter of the housing is 21.5mm (0.88")
 - 2. Hex is 22 mm (0.886") Across Flats (A/F) for deep socket mounting
 - 3. O-rings are not included except for Port option 05

Wiring Diagram



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 _{supply}	Supply	V _{supply}	Supply	V _{supply}	Supply	V _{supply}	Supply
2	V _{out}	Return	Ground	Return	Ground	Return	Ground	Return
3	Ground	No Connect	V _{out}	No Connect	V _{out}	No Connect	V _{out}	No Connect
4	—	No Connect	No Connect	No Connect	No Connect	No Connect	—	—

Cable		
		
Code F		
Wire Color	Voltage Mode	Current Mode
Red	V _{supply}	Supply
Green	Ground	Return
Yellow	V _{out}	—

How to Order

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

			3510	X	XXXX	X	XX	X	X	00
Series										
Output										
B - 4–20 mA	C - 1–6 V	H - 1–5 V								
N - 0.5–4.5 V	P - 1–10 V	R - 0–5 V								
S - 0–10 V	T - 0.5–4.5 V Ratiometric									
Pressure Range										
000P - 0 psi ¹	0000 - 0 bar ¹									
05P0 - 5 psi	350M - 350 mbar									
07P0 - 7 psi	500M - 500 mbar									
010P - 10 psi	700M - 700 mbar									
015P - 15 psi	0001 - 1 bar									
030P - 30 psi	01B6 - 1.6 bar									
050P - 50 psi	02B5 - 2.5 bar									
100P - 100 psi	0004 - 4 bar									
150P - 150 psi	0006 - 6 bar									
200P - 200 psi	0010 - 10 bar									
250P - 250 psi	0016 - 16 bar									
400P - 400 psi	0025 - 25 bar									
600P - 600 psi	0040 - 40 bar									
870P - 870 psi	0060 - 60 bar									
Pressure Datum										
G - Gauge	A - Absolute	V - Compound ²								

Notes:

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