

Exclusive V2 features

- True 1% interchangeability from unit to unit – laser trimmed technology
- Fused silicon for superior linearity and repeatable performance
- Extremely high proof and pressure tolerance
- Reverse polarity protected
- Wide operating range, -40°F to 250°F
- EMI/RFI protected – IEC 801-3
- Natural gas vehicle systems approvals available, compliant to NGV 3.1

Model V2 Pressure Transducer

An entirely new Ashcroft® pressure transducer featuring fused silicon gauge technology specifically designed for rugged and reliable OEM applications!



PERFORMANCE CHARACTERISTICS

	Term. Point	BFSL
Accuracy Class (F.S.):	±1.0%	±0.6%
Including:		
Nonlinearity	±0.7%	±0.4%
Hysteresis	±0.1%	±0.1%
Nonrepeatability	±0.1%	±0.1%

Standard Ranges (psi):

Consult factory for nonstandard ranges and venting options.

Stability: ±0.5% F.S./year, non-cumulative

Durability: 100 million cycles 15/115%

0/15	0/200	0/2500	0/10,000
0/30	0/300	0/3000	Vac/0
0/60	0/500	0/3600	Vac/15
0/100	0/750	0/5000	Vac/30
0/150	0/1000	0/7500	Vac/100

ENVIRONMENTAL CHARACTERISTICS

Temperature:

Storage	-65/+275°F	-54/+135°C
Operating	-40/+250°F	-40/+121°C
Compensated	-40/+250°F	-40/+121°C

Thermal Coefficients: (68°F ref.)

Zero	±0.04% F.S./°F max.
Span	±0.04% F.S./°F max.

Humidity: Meets MIL-E-5272C.

FUNCTIONAL CHARACTERISTICS

Overpressure (F.S.):

	Proof	Burst
0/15 to 0/1500	250%	750%
0/2000 to 0/5000	250%	400%
0/7500	200%	250%
0/10,000	150%	200%

Position Effect:

Less than 0.01% F.S.

Vibration:

Tests were performed in all three axes with negligible performance changes.

Sweep: 50-2kHz 5g peak

Shock: 1000g peak

Random: 16g rms

ELECTRICAL SPECIFICATIONS

Output	Excitation	Supply Current
4-20mA	8-30 Vdc	N/A
1-6 Vdc	8-30 Vdc	10mA typ.
1-5 Vdc	8-30 Vdc	10mA typ.
0.5-4.5 Vdc (nonratiometric)	8-30 Vdc	10mA typ.
0.5 to 4.5 Vdc (ratiometric)	5V typ. (10V max.)	5mA typ.
10mV/V	5V typ. (10V max.)	2.5mA @ 5V

Interchangeability ±1.0%

Zero Balance: All models ±1.0%

Span: All models ±1.0%

RFI Protection: Standard IEC 801-3 level 4 at 20 V/M

Resonse Time: Less than 5 msec

All models are reverse polarity protected

PHYSICAL CHARACTERISTICS

Standard Process Connections:

1/8" NPT – Male

1/4" NPT – Male

7/16"-20 – Male

Enclosure:

NEMA 4X

Materials:

Body – 6/6 Glass Filled Nylon

Socket/Diaphragm – 300 Series/17-4PH SS

Weight:

Approx. 3 oz.

OPTIONAL FEATURES

- Temperature Output – Available on voltage outputs. Consult factory

AGENCY APPROVALS

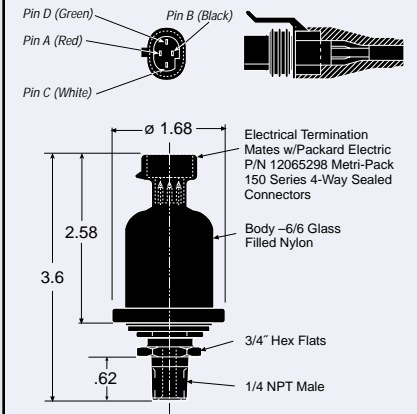
Natural Gas Vehicle Systems CGA/AGA compliant to NGV 3.1



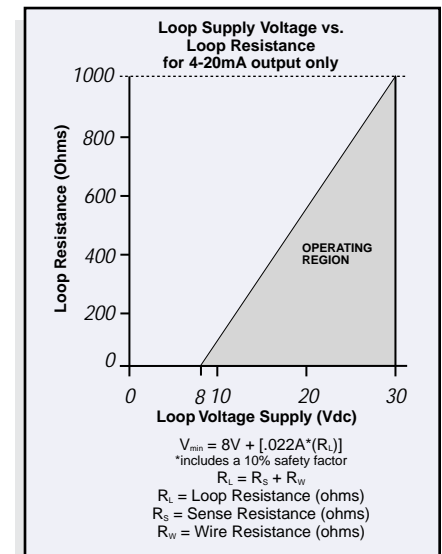
A Halliburton Company

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Dimensions



	COLOR	VOLTAGE	4-20mA	mV/V
PIN A	Red	V+ in	V+ in	V+ in
PIN B	Black	V- in	V- in	V- in
PIN C	White	V out	-	S- out
PIN D	Green	Temp. signal (optional)	-	S+ out



How To Order

MODEL TYPE V 2	ACCURACY CLASS 7 = 1.0%	PRESSURE CONNECTION M01 = 1/8 NPT-M M02 = 1/4 NPT-M MEK = 7/16-20-M Pressure ranges up to and including 10,000 psi	OUTPUT 15 = 1-5 Vdc 16 = 1-6 Vdc 42 = 4-20mA 45 = 0.5-4.5 Vdc Nonratiometric MV = 10mV/V RM = Ratiometric 0.5-4.5 Vdc	ELECTRICAL TERMINATION* A0 = Mating connector, no cable A1 = Same as (A2) except cable length made to order A2 = Mating connector & 3 ft. cable A3 = Mating connector & 6 ft. cable A5 = Mating connector & 9 ft. cable A6 = Mating connector & 12 ft. cable A7 = Mating connector & 15 ft. cable A8 = Mating connector & 20 ft. cable A9 = Mating connector & 6 in. cable AA = Mating connector & 1 ft. cable NC = No Mating connector supplied MW = Mating connector with separate wire leads—length made to order	PRESSURE RANGES (15) 15 psi (10,000) 10,000 psi (Vac/0) Vac/0 (Vac/100) Vac/100	X VARIATIONS See drawing 64A234
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