

## 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!



ISO 9001  
REGISTERED FIRM

**DRESSER**  
Measurement

BULLETIN V-2

## PERFORMANCE CHARACTERISTICS

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

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

**Durability:** 100 million cycles 15/115%

**Standard Ranges (psi):**

Consult factory for nonstandard ranges and venting options.

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

\*Available in 4-20 mA output only.

## 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

**EMC:** CE compliant to EN61326: 1997

Annex A.

## 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. (7V max.)	5mA typ.
10mV/V	5V typ. (10V max.)	2.5mA @ 5V

\*Optional CE versions available.

**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

**Warm-up time:** less than 250ms

**Circuit to Case Insulation Resistance:**

500m ohms @ 50 Vdc

**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. 4.3 oz.

## AGENCY APPROVALS

Natural Gas Vehicle Systems CGA/AGA compliant to NGV 3.1

**INTERTECHNOLOGY**  
INC.

1 Scarsdale Road, Don Mills, ON M3B 2R2

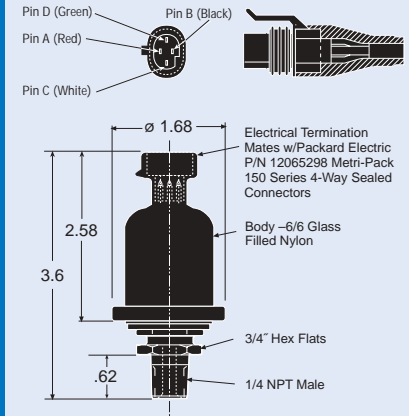
Tel: 416-445-5500, Fax: 416-445-1170

**TOLL FREE: 1-800-465-1600**

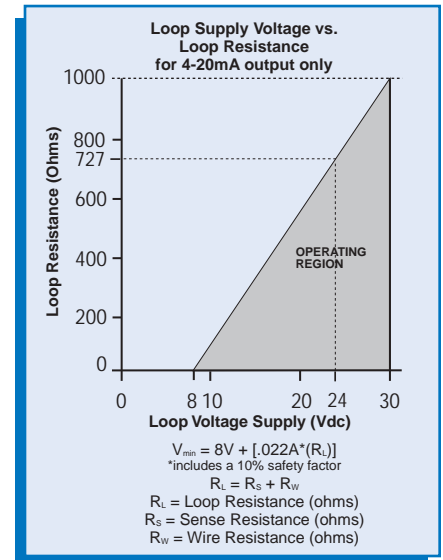
E-Mail: [sales@intertechnology.ca](mailto:sales@intertechnology.ca)

Website: [www.intertechnology.com](http://www.intertechnology.com)

## 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	(optional)	-	S+ out



## How To Order

MODEL TYPE	ACCURACY CLASS	PRESSURE CONNECTION	OUTPUT	ELECTRICAL TERMINATION*	PRESSURE RANGES	X VARIATIONS
V 2	7 = 1.0%	M01 = 1/8 NPT-M M02 = 1/4 NPT-M MEK = 7/16-20-M Pressure ranges up to and including 10,000 psi	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	A0 = Mating connector, no cable A1 = Same as (A2) except cable length made to order A2 = Mating connector & 3 ft. cable A4 = 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	(15) 15 psi (10,000) 10,000 psi (Vac/0) Vac/0 (Vac/100) Vac/100	See drawing 64A234