All F1 pressure transducers are manufactured in our Class 10 clean room environment. Our flow through pressure transducers are specifically designed for the semiconductor industry. Their long life, coupled with long-term stability, can greatly reduce or eliminate the need for zero and span adjustments.

All DI-CFG transducers are CE certified with EMI/RFI protection and are manufactured to an electropolished wetted surface finish of 5 micro inch Ra maximum. They are available in pressure ranges from 25-3,000 psi with special fittings furnished upon request.

**FEATURES**

- Isolated sensor
- Precise temperature compensation
- NEMA 4 option
- Gauge, compound and absolute versions
- Supplied as class I product
- 316L VIM VAR stainless steel
- Small footprint
- Multiplex signal outputs
- Low moisture

**BENEFITS**

- Reduces calibration drift
- Reliable performance over wide temperature range
- Designed for outdoor use
- Meets a variety of measurement needs
- Minimizes particle contamination
- Corrosion resistant and improved weld-ability
- Flexibility in installation
- Space savings
- Compatible with a wide variety of systems
- Fast dry down

**HOW TO ORDER**

Product Family

F1: Flow-through high purity pressure transducer

Output Signal

4 : 4-20 mA
5 : 0-5 VDC

Connections Size and Style

T4 : 1/4" OD 0.035" wall, 1/4" long tube stub
T6 : 3/8" OD 0.035" wall, 1/4" long tube stub
T8 : 1/2" OD 0.049" wall, 1/4" long tube stub
VF : 1/4" female face seal
VM : 1/4" male face seal
VP : 1/4" male fixed by female face seal
VS : 1/4" male face seal, swivel
WF : 1/2" female face seal
WM : 1/2" male face seal
WP : 1/2" male fixed by female face seal
WS : 1/2" male face seal, swivel

Pressure Range

V025 : -14.7- 0 - 25 psig
V050 : -14.7- 0 - 50 psig
V100 : -14.7- 0 - 100 psig
V200 : -14.7- 0 - 200 psig
V250 : -14.7- 0 - 250 psig
V500 : -14.7- 0 - 500 psig
V025 : 0-25 psi
V050 : 0-50 psi
V100 : 0-100 psi
V200 : 0-200 psi
V250 : 0-250 psi
V500 : 0-500 psi
1000 : 0-1000 psi
2000 : 0-2000 psi
3000 : 0-3000 psi

**Electrical Connection**

B : Bendix, male
P : 6' pigtail

**Pressure Range Scale**

A : absolute
C : compound
G : gauge

All Series F1 Transducers are

CERTIFIED for heavy industrial use.
TECHNICAL SPECIFICATIONS

RANGES

From 25 psi to 3,000 psi in 15 selectable ranges shown on front.

PHYSICAL

Overload Pressure
2 x rated range

Burst Pressure
10 x rated range < 50 psig
5 x rated range for > 50 psig

Wetted Parts
316L VIM-VAR, <5 micro inch Ra maximum, electropolished

Fittings
1/4" or 1/2" face seal male and female

Helium Leak Rate
< 2 x 10^-9 atm. std cc/sec

ELECTRICAL

Output
4 to 20 mA 0 to 5 VDC

Excitation
12 to 36 VDC

Full Scale Output
16 ± 0.16 mA 5 ± 0.1 VDC

Zero Offset
4 mA ± 0.4 mA 0 ± 0.1 VDC

Electrical Connection
electrical connector available or cable, 6" long (2 meter)

Zero and span adjustment
±10% F.S.O.

PERFORMANCE

Accuracy
±0.5% F.S.O.

Operating and Storage

Temperature Range
- 40˚ to 85˚C (-40˚ to 185˚F)

Compensated Temperature Range
0˚ to 70˚C (32˚ to 158˚F)

Thermal Effect on Zero
< ±0.01% F.S.O. /°F

Thermal Effect on Full Scale Output
< ±0.01% F.S.O. /°F

Life
>100 Million Cycles

Mean Time Between Failure
350,000 hours

WARRANTY

All DI-CFG products are warranted against defective materials and workmanship for a period of two years from the date of delivery to the original purchaser. Any product that is found within the two year period not to meet these standards will be replaced or repaired at the discretion of DI-CFG. No other warranty is expressed or implied. DI-CFG accepts no responsibility for misuse, misapplication or unauthorized modification of its products. DI-CFG accepts no liability for damages, including, any anticipated or lost profits, incidental damages, consequential damages, costs, time charges or other losses incurred in connection with the purchase, installation, repair or operation of our products, or any part thereof.

DI-CFG products are protected by one or more of the following patents: U.S. 4,203,074; 4,327,350; 4,368,575; 4,912,409; 4,667,158; 4,866,232; 4,866,378; 5,068,607; 5,115,193; 5,174,014; 5,317,923; European 0338966; U.K. 2054954; Japan 1498268; France 8014767. Additional U.S. and Foreign patents pending.

SPECIFICATIONS

DIMENSIONS

xx.xx = inches
(xx.x) = mm

1/2 male by female face seal
TYP.
TYP.
TYP.
2.24
(56.0)
(24.1)
(11.0)
(21.5)

1/2 male face seal

1/4 male face seal swivel

1/2 female face seal

1/4 tube stub

1/2 tube stub

3/8 tube stub

1/4" fittings

1/2" fittings

1/2 male face seal swivel

1/2 male face seal

1/2 male by female face seal

1/4 male face seal swivel

1/4 female face seal

1/4 female face seal

1/2 male face seal

1/2 male by female face seal

WARRANTY

All DI-CFG products are warranted against defective materials and workmanship for a period of two years from the date of delivery to the original purchaser. Any product that is found within the two year period not to meet these standards will be replaced or repaired at the discretion of DI-CFG. No other warranty is expressed or implied. DI-CFG accepts no responsibility for misuse, misapplication or unauthorized modification of its products. DI-CFG accepts no liability for damages, including, any anticipated or lost profits, incidental damages, consequential damages, costs, time charges or other losses incurred in connection with the purchase, installation, repair or operation of our products, or any part thereof.

DI-CFG products are protected by one or more of the following patents: U.S. 4,203,074; 4,327,350; 4,368,575; 4,912,409; 4,667,158; 4,866,232; 4,866,378; 5,068,607; 5,115,193; 5,174,014; 5,317,923; European 0338966; U.K. 2054954; Japan 1498268; France 8014767. Additional U.S. and Foreign patents pending.