

Data Sheet

E2X-E2F Explosion-Proof Pressure Transducer

FEATURES

- E2X- Flameproof, intrinsically safe and non-incendive approval for explosion-proof/hazardous applications.
- E2F- Flameproof approval for explosion-proof/hazardous applications.
- FM, CSA, ATEX and IECEx approvals
- Ranges vac through 20,000 psi
- IP66/67 Ingress rating
- Wide selection of process connections available
- Customizable configurations
- External magnetic offset & span adjustment
- Barometric pressure ranges available (standard & custom ranges)

TYPICAL USES

- Oil field equipment
- Upstream oil & gas production
- Natural gas compression
- Alternative energy projects
- Engine monitoring
- Process & pneumatic sensing
- Hydrogen applications



E2X
Pressure Transducer



PERFORMANCE SPECIFICATIONS

Reference Temperature: 70 °F ±3.6 °F, (21 °C ±2 °C)

Static Accuracy: ±0.25% of span, ±0.50% of span, ±1.0% of span, (0-1.5# Range only available in ±0.5% and 1.0% accuracy) Terminal Point Method includes: hysteresis, linearity, repeatability, offset and span

Stability: ±0.25% year at reference conditions

ENVIRONMENTAL SPECIFICATIONS

Thermal Coefficients: Offset: ±0.005% /°F from -40 °F to 257 °F (±0.009% /°C from -40 °C to 125 °C)
Span: ±0.005% /°F from -40 °F to 257 °F (±0.009% /°C from -40 °C to 125 °C)

Temperature Limits: Storage: -58 °F to 257 °F (-50 °C to 125 °C)
Operating: -40 °F to 176 °F (-40 °C to 80 °C)
Media: -40 °F to 176 °F (-40 °C to 80 °C)

Humidity: 0-100% (non-condensing)

FUNCTIONAL SPECIFICATIONS

Response Time (Output): 4 ms

Gauge/Compound Pressure Ranges: VAC to 20,000 psig

Shock: 80g, 6 ms, Haversine

Vibration: Random: 10g RMS 20-2000 Hz

Absolute Pressure Ranges: 0 to 500 psia

Proof Pressure: 1.2X - 2X (See Table 1 on page 2)

Burst Pressure: 3X - 8X (See Table 1 on page 2)

KEY BENEFITS

- Highly configurable
- Easy calibration of offset and span

ELECTRICAL SPECIFICATIONS

Circuit Protection: Reverse polarity protected

EXPLOSION PROOF INSTALLATIONS

Supply Voltage Output

9-36 Vdc: 4-20 mA, 20-4 mA (2-wire), 0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0.1-5 Vdc, 0.5-4.5 Vdc

14-36 Vdc: 0-10 Vdc, 1-11 Vdc, 0.1-10 Vdc

INTRINSICALLY SAFE INSTALLATIONS

Supply Voltage Output

9-28 Vdc: 0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 1-11 Vdc, 0.1-5 Vdc, 0.1-10 Vdc, 0.5-4.5 Vdc

9-30 Vdc: 4-20 mA, 20-4 mA (2-wire)

NON-INCENDIVE/NON-SPARKING INSTALLATIONS

Supply Voltage Output

9-28 Vdc: 0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 1-11 Vdc, 0.1-5 Vdc, 0.1-10 Vdc, 0.5-4.5 Vdc

9-30 Vdc: 4-20 mA, 20-4 mA (2-wire)

Adjustability: ±5% of span non-interactive offset & span

Supply Current: <8 mA (Vout)

Current Source/Sink for Voltage Output: 1 mA (source)/ 0.1 mA (sink) MAX.

Withstand/Breakdown: 100 Vdc/Vac, optional 500 Vdc/Vac

Data Sheet

E2X-E2F Explosion-Proof Pressure Transducer

PHYSICAL SPECIFICATIONS

Ingress Rating: IP66 (NEMA 4X) (STD.)
IP67 (IP69K Consult Factory)

WETTED MATERIAL

| Diaphragm: | Sensor: | Material: |
|------------|---------|---------------------------------------|
| | A | 17-4PH® Stainless steel |
| | B | 316L Stainless steel |
| | C | 316L Stainless steel, liquid isolated |
| | D | A286 |

Process Connection: 316L Stainless steel

NON-WETTED MATERIAL

Housing: 316L Stainless steel

EMC TESTING

EMC: Directive 2014/30/EU, and EN61326-1,
EN61326-2-3 (Industrial Env.)

| Immunity: | Standard | Level |
|-----------|---------------------------------|--|
| | 61000-4-2 (ESD) | ±4kV/±8kV (Contact/Air) |
| | 61000-4-3 (Radiated RF) | 10 V/m to 1GHz, 3 V/m to 2GHz, 1 V/m to 2.7GHz |
| | 61000-4-4 (EFT/Burst) | ±1kV (5/50ns, 5kHz) |
| | 61000-4-5 (Surge) | ±1kV, Earth to Shield over all I/O lines |
| | 61000-4-6 (Conducted RF) | 3V (0.15 to 80MHz) |
| | 61000-4-8 (Line Freq. Magnetic) | 30A/m |

Emissions: EN 55011 (CISPR 11) Class A, Group 1 & FCC (47 CFR 15)

HAZARDOUS AREA CERTIFICATIONS

Explosion/Flame/Dust Ignition Proof Installations (E2X - E2F)

FM:

Class I, Division 1, Group A, B, C, D T4 -40 °C < Ta < 80 °C
Class II, Division 1, Group E, F, G T4 -40 °C < Ta < 80 °C
Class III T4 -40 °C < Ta < 80 °C

CSA:

Ex db IIC T4 Gb
Class I, Division 1, Groups A, B, C and D T4
Class II, Division 1, Groups E, F and G T135 °C
Ex tb IIIC T135 °C Db
Class III, Division 1 T135 °C

EX db IIC T4 Gb -40 °C ≤ Ta ≤ 80 °C

EX db IIC T135 °C Db -40 °C ≤ Ta ≤ 80 °C

ATEX/IECEx:

Class I, Zone 1, AEx db IIC T4 Gb -40 °C < Ta < 80 °C
Class II, Zone 21, AEx tb IIIC T135 °C Db -40 °C < Ta < 80 °C

II 2 G Ex db IIC T4 Gb -40 °C < Ta < 80 °C

II 2 D Ex tb IIIC T135 °C Db -40 °C < Ta < 80 °C

Intrinsically Safe Installations (E2X only)

FM:

Class I, Division 1, Group A, B, C, D T4 -40 °C < Ta < 80 °C
Class II, Division 1, Group E, F, G T4 -40 °C < Ta < 80 °C
Class III, T4 -40 °C < Ta < 80 °C

CSA:

Ex ia IIC T4 Ga
Class I, Division 1 Groups A, B, C and D T4, Ex ia
Ex ia IIIC T135 °C Da
Class II, Division 1, Groups E, F and G T135 °C
Class III, Division 1 T135 °C

Ex ia IIC T4 Ga -40 °C ≤ Ta ≤ 80 °C

Ex ia IIIC T135 °C D -40 °C ≤ Ta ≤ 40 °C

ATEX/IECEx:

Class I, Zone 0, AEx ia IIC T4 Ga -40 °C < Ta < 80 °C
Class II, Zone 20, AEx ia IIIC T135 °C Da -40 °C < Ta < 40 °C
Class I, Zone 2, AEx ic IIC T4 Gc -40 °C < Ta < 80 °C
Class II, Zone 22 AEx ic IIIC T135 °C Dc -40 °C < Ta < 80 °C

II 1 G Ex ia IIC T4 Ga -40 °C < Ta < 80 °C

II 1 D Ex ia IIIC T135 °C Da -40 °C < Ta < 40 °C

II 3 G Ex ic IIC T4 Gc -40 °C < Ta < 80 °C

II 3 D Ex ic IIIC T135 °C Dc -40 °C < Ta < 80 °C

Non-Incendive (E2X only)

FM:

Class I, Division 2, Group A, B, C, D T4 -40 °C < Ta < 80 °C
Class II, Division 2, Group E, F, G T4 -40 °C < Ta < 80 °C
Class III, T4 -40 °C < Ta < 80 °C

CSA:

Ex ic IIC T4 Ge
Class I, Division 2, Groups A, B, C and D T4
Ex ic IIIC T135 °C Dc
Class II, Division 2, Groups F, G T135 °C
Class III, Division 2 T135 °C

EX ic IIC Gc -40 °C ≤ Ta ≤ 80 °C

EX ic IIIC T135 °C Dc -40 °C ≤ Ta ≤ 80 °C

Data Sheet

E2X-E2F Explosion-Proof Pressure Transducer

TABLE 1: PROOF & BURST PRESSURE MULTIPLIERS

| Sensor Range | A Sensor - 17-4PH® SS | | B Sensor - 316L SS | | C Sensor - 316L SS ISO | | D Sensor - A286 | |
|-------------------|-----------------------|-------|--------------------|-------|------------------------|-------|-----------------|-------|
| | Proof | Burst | Proof | Burst | Proof | Burst | Proof | Burst |
| (psi) | | | | | | | | |
| 1.5 | | | | | 3.3X | 5X | | |
| 5 | | | | | 3X | 5X | | |
| 10 | | | | | 2X | 5X | | |
| 15 | | | | | 2X | 5X | | |
| 30 | | | | | 2X | 5X | | |
| 45 | 2X | 8X | 1.5X | 8X | 2X | 5X | | |
| 50 | 2X | 8X | 1.5X | 8X | 2X | 5X | | |
| 60 | 2X | 8X | 1.5X | 8X | 2X | 5X | | |
| 75 | 2X | 8X | 1.5X | 8X | 2X | 5X | | |
| 100 | 2X | 8X | 1.5X | 8X | 2X | 5X | | |
| 150 | 2X | 8X | 1.5X | 8X | 2X | 4X | | |
| 200 | 2X | 8X | 1.5X | 8X | 2X | 3X | | |
| 300 | 2X | 8X | 1.5X | 8X | 2X | 3X | | |
| 500 | 2X | 8X | 1.2X | 5X | 2X | 3X | | |
| 750 | 2X | 8X | 1.2X | 5X | | | | |
| 1000 | 2X | 8X | 1.2X | 5X | | | | |
| 1500 | 2X | 8X | 1.2X | 5X | | | | |
| 2000 | 2X | 8X | 1.2X | 5X | | | | |
| 3000 | 2X | 5X | 1.2X | 5X | | | | |
| 5000 | 1.5X | 5X | 1.2X | 5X | | | 1.5X | 5X |
| 7500 | 1.5X | 3X | | | | | 1.5X | 5X |
| 10000 | 1.2X | 3X | | | | | 1.2X | 5X |
| 15000 | 1.2X | 3X | | | | | 1.2X | 5X |
| 20000 | 1.2X | 3X | | | | | 1.2X | 5X |
| (Compound) | | | | | | | | |
| VAC# | | | | | 2X | 5X | | |
| V&15# | | | | | 2X | 5X | | |
| V&30# | | | | | 2X | 5X | | |
| V&45# | 2X | 8X | 1.5X | 8X | 3X | 7.7X | | |
| V&60# | 2X | 8X | 1.5X | 8X | 2X | 5X | | |
| V&100# | 2X | 8X | 1.5X | 8X | 3.3X | 6X | | |
| V&150# | 2X | 8X | 1.5X | 8X | 2X | 4X | | |
| V&200# | 2X | 8X | 1.5X | 8X | 3X | 4.5X | | |
| V&300# | 2X | 8X | 1.5X | 8X | 2X | 3X | | |
| (psia) | | | | | | | | |
| 15 | | | | | 2X | 5X | | |
| 30 | | | | | 2X | 5X | | |
| 70 | | | | | 2X | 5X | | |
| 150 | | | | | 2X | 4X | | |
| 300 | | | | | 2X | 3X | | |
| 500 | | | | | 2X | 3X | | |

Data Sheet

E2X-E2F Explosion-Proof Pressure Transducer

| ORDERING CODE | Example: | E2X | B | 3 | C | F02 | 42 | CF | X | 10 | F | 100# | -XNH |
|--|----------|-----|---|---|---|-----|----|----|---|----|---|------|------|
| Model | | | | | | | | | | | | | |
| E2X - Explosion proof | | E2X | | | | | | | | | | | |
| E2F - Flame proof | | | | | | | | | | | | | |
| Sensor Materials - See Table 2 on page 4 for more options | | | | | | | | | | | | | |
| A - 17-4PH® Stainless steel | | | | | | | | | | | | | |
| B - 316L Stainless steel | | | B | | | | | | | | | | |
| C - 316L Stainless steel (liquid isolated) | | | | | C | | | | | | | | |
| D - A286 | | | | | | | | | | | | | |
| Accuracy | | | | | | | | | | | | | |
| 3 - 0.25% span (not available with 1.5 psi range) | | | | 3 | | | | | | | | | |
| 5 - 0.50% span | | | | | | | | | | | | | |
| 7 - 1.00% span | | | | | | | | | | | | | |
| Calibration Chart | | | | | | | | | | | | | |
| N - Without calibration chart | | | | | | | | | | | | | |
| C - With Traceable calibration certificate | | | | | C | | | | | | | | |
| Pressure Connections - See Table 3 on page 5 for more options | | | | | | | | | | | | | |
| F02 - (¼ NPT Female) | | | | | | F02 | | | | | | | |
| Output Type | | | | | | | | | | | | | |
| 05 - 0-5 Vdc | | | | | | | | | | | | | |
| 10 - 0-10 Vdc | | | | | | | | | | | | | |
| 11 - 1-11 Vdc | | | | | | | | | | | | | |
| 12 - 0.1-10 Vdc | | | | | | | | | | | | | |
| 13 - 0.1-5 Vdc | | | | | | | | | | | | | |
| 15 - 1-5 Vdc | | | | | | | | | | | | | |
| 16 - 1-6 Vdc | | | | | | | | | | | | | |
| 24 - 20-4 mA | | | | | | | | | | | | | |
| 42 - 4-20 mA | | | | | | | 42 | | | | | | |
| 45 - 0.5-4.5 Vdc non-ratiometric | | | | | | | | | | | | | |
| 00 - Custom | | | | | | | | | | | | | |
| Electrical Connections - See Table 4 on page 6 for more options | | | | | | | | | | | | | |
| CF - (½ NPT conduit w/flying leads) | | | | | | | | CF | | | | | |
| Mating Connector | | | | | | | | | | | | | |
| X - Without mating connector | | | | | | | | | X | | | | |
| Cable Length | | | | | | | | | | | | | |
| Max cable length of 30ft for outputs 05, 10, 11, 12, 13, 15, 16 and 45. Max cable length of 99ft for outputs 24 and 42 | | | | | | | | | | | | | |
| 00 - No cable | | | | | | | | | | | | | |
| XX - 01 to 99 | | | | | | | | | | 10 | | | |
| Unit of Length | | | | | | | | | | | | | |
| F - Feet | | | | | | | | | | | F | | |
| M - Meter | | | | | | | | | | | | | |
| N - Inches | | | | | | | | | | | | | |
| 0 - No cable | | | | | | | | | | | | | |
| Pressure Ranges - Coding example only, see Table 5 on page 7 for more options | | | | | | | | | | | | | |
| 100# - 100 psig | | | | | | | | | | | | 100# | |
| Options (if choosing an option(s) must include an "X") | | | | | | | | | | | | | |
| NN - Paper tag | | | | | | | | | | | | | -X |
| NH - Stainless steel tag | | | | | | | | | | | | | NH |

| Accessory | Part Number |
|--|-------------|
| Offset and Span Adjustment Magnet | 266A143-01 |
| Accessories must be ordered separately | |

E2X-E2F Explosion-Proof Pressure Transducer

TABLE 2 - SENSOR PRESSURE RANGE

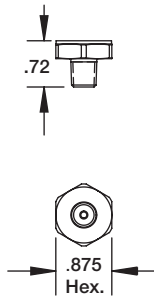
| psi | Sensor Material | | | | bar | Sensor Material | | | | inHg | Sensor Material | | | |
|--------|-----------------|--------------|--------------|-----------|---------|-----------------|--------------|--------------|-----------|-------------|-----------------|--------------|--------------|-----------|
| | A 17-4PH® SS | B 316L SS | C 316 ISO | D A286 | | A 17-4PH® SS | B 316L SS | C 316 ISO | D A286 | | A 17-4PH® SS | B 316L SS | C 316 ISO | D A286 |
| 1.5# | | | • | | | | | | | | | | | |
| 5# | | | • | | 400MB | | | • | | 10IM | | | • | |
| 10# | | | • | | 600MB | | | • | | 20IM | | | • | |
| 15# | | | • | | 1BR | | | • | | 30IM | | | • | |
| 30# | • | • | • | | 1.6BR | • | • | • | | 50IM | • | • | • | |
| 45# | • | • | • | | 2BR | • | • | • | | 100IM | • | • | • | |
| 50# | • | • | • | | 2.5BR | • | • | • | | 200IM | • | • | • | |
| 60# | • | • | • | | 4BR | • | • | • | | 300IM | • | • | • | |
| 75# | • | • | • | | 6BR | • | • | • | | 500IM | • | • | • | |
| 100# | • | • | • | | 10BR | • | • | • | | 1000IM | • | • | • | |
| 150# | • | • | • | | 16BR | • | • | • | | VACIM | | | • | |
| 200# | • | • | • | | 20BR | • | • | • | | V&30IM | | | • | |
| 250# | • | • | • | | 25BR | • | • | • | | V&60IM | • | • | • | |
| 300# | • | • | • | | 40BR | • | • | • | | V&100IM | • | • | • | |
| 500# | • | • | • | | 60BR | • | • | • | | V&200IM | • | • | • | |
| 750# | • | • | • | | 100BR | • | • | • | | 30IMA | | | • | |
| 1000# | • | • | • | | 160BR | • | • | • | | 50IMA | | | • | |
| 1500# | • | • | • | | 200BR | • | • | • | | 100IMA | | | • | |
| 2000# | • | • | • | | 250BR | • | • | • | • | 200IMA | | | • | |
| 2500# | • | • | • | | 400BR | • | • | • | • | 300IMA | | | • | |
| 3000# | • | • | • | | 600BR | • | • | • | • | 500IMA | | | • | |
| 5000# | • | • | • | • | 1000BR | • | • | • | • | 1000IMA | | | • | |
| 7500# | • | • | • | • | 1400BR | • | • | • | • | 20&32IMA | | | • | |
| 10000# | • | • | • | • | VACBR | • | • | • | • | 26&32IMA | | | • | |
| 15000# | • | • | • | • | V&1BR | • | • | • | • | 700&1100MBA | | | • | |
| 20000# | • | • | • | • | V&1.6BR | • | • | • | • | 900&1100MBA | | | • | |
| VAC# | | | • | | V&2BR | • | • | • | | | | | | |
| V&15# | | | • | | V&4BR | • | • | • | | | | | | |
| V&30# | • | • | • | | V&6BR | • | • | • | | | | | | |
| V&45# | • | • | • | | 1BRA | | | • | | | | | | |
| V&60# | • | • | • | | 1.6BRA | | | • | | | | | | |
| V&100# | • | • | • | | 2BRA | | | • | | | | | | |
| V&150# | • | • | • | | 2.5BRA | | | • | | | | | | |
| V&200# | • | • | • | | 4BRA | | | • | | | | | | |
| V&300# | • | • | • | | 6BRA | | | • | | | | | | |
| 15#A | | | • | | 10BRA | | | • | | | | | | |
| 30#A | | | • | | 16BRA | | | • | | | | | | |
| 50#A | | | • | | 20BRA | | | • | | | | | | |
| 100#A | | | • | | 25BRA | | | • | | | | | | |
| 120#A | | | • | | | | | | | | | | | |
| 200#A | | | • | | | | | | | | | | | |
| 300#A | | | • | | | | | | | | | | | |
| 500#A | | | • | | | | | | | | | | | |

Data Sheet

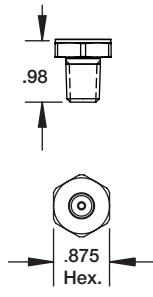
E2X-E2F Explosion-Proof Pressure Transducer

TABLE 3 - PRESSURE CONNECTION DIMENSIONS

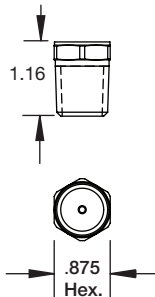
1/8 NPT Male
Code: M01
MAWP: 20,000 psi



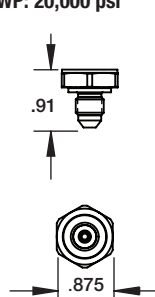
1/4 NPT Male
Code: M02
MAWP: 20,000 psi



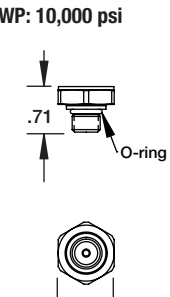
1/2 NPT Male
Code: M04
MAWP: 10,000 psi



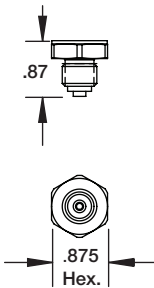
7/16-20 UNJF-3A 37° Flare (SAE AS4395)
Code: M76
MAWP: 20,000 psi



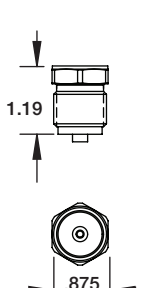
7/16-20 UNJF-2A SAE Male (SAE J1926 O-Ring Boss seal)
Code: MEK
MAWP: 10,000 psi



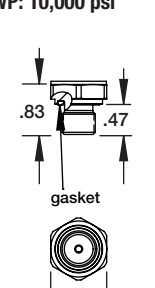
G1/4 B-Male (EN837-1)
Code: MG2
MAWP: 20,000 psi



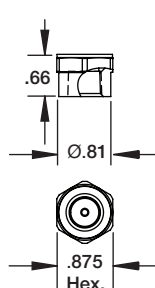
G1/2 B Male (EN837-1)
Code: MG4
MAWP: 20,000 psi



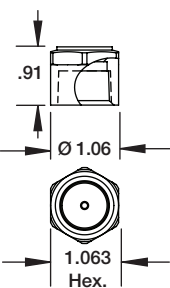
G1/4 A-MALE (stud end DIN 3852-E G1/4)
Code: MGA
MAWP: 10,000 psi



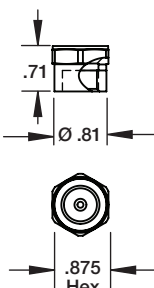
1/4-18 NPT Female
Code: F02
MAWP: 10,000 psi



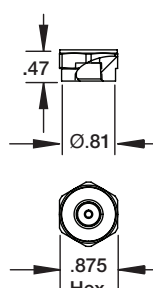
1/2-14 NPT Female
Code: F04
MAWP: 5,000 psi



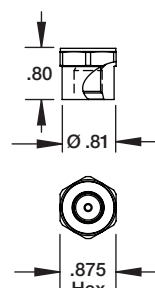
9/16-18 UNF-2B Female
Code: F09
MAWP: 25,000 psi



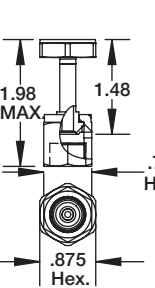
1/8 -27 NPT Female
Code: F01
MAWP: 10,000 psi



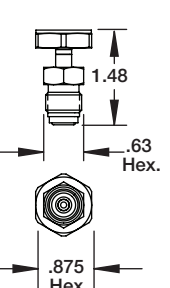
7/16-20 UNF-2B SAEJ1926
Code: FRW
MAWP: 9,100 psi



1/4" VCR® gland with 9/16-18 Female Swivel
Code: FV2
MAWP: 5,100 psi



1/4" VCR® gland with 9/16-18 Male Swivel Nut
Code: MV2
MAWP: 5,100 psi



Data Sheet

E2X-E2F Explosion-Proof Pressure Transducer

TABLE 4 - ELECTRICAL CONNECTION DIMENSIONS

Maximum temperature range listed

**½ NPT Conduit
With Flying Leads**

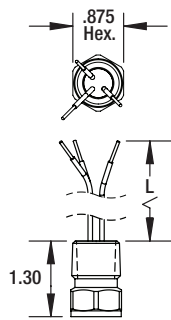
**Code: CF
IP67 (NEMA 4X)**

-40 °F to 176 °F (-40 °C to 80 °C)

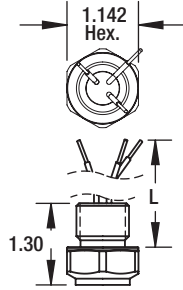
**M20 Conduit
With Flying Leads**

**Code: MF
IP67 (NEMA 4X)**

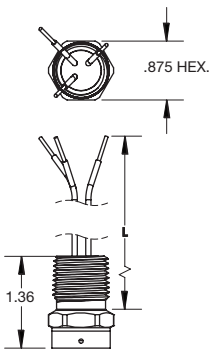
-40 °F to 176 °F (-40 °C to 80 °C)



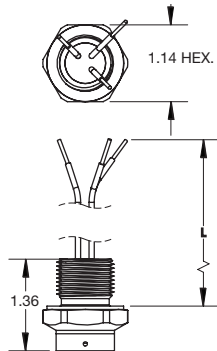
Unvented



Unvented



Vented



Vented

Vented conduit supplied on units
with pressure range ≤ to 500#

TABLE 5 - PRESSURE RANGES

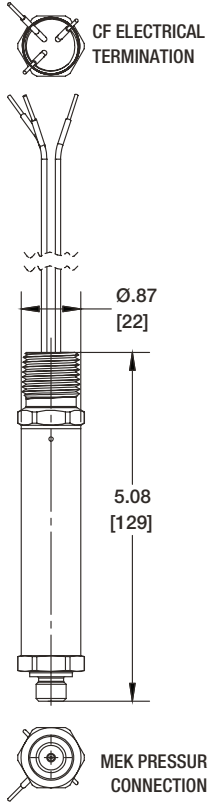
| | PSI | bar | inHg |
|--------------------------|--------|---------|---------|
| Vac. | VAC# | VACBR | VACIM |
| | V&15# | V&1BR | V&30IM |
| | — | V&1.6BR | — |
| | V&30# | V&2BR | V&60IM |
| | V&45# | — | V&100IM |
| | V&60# | V&4BR | — |
| | — | V&6BR | — |
| | V&100# | — | V&200IM |
| | V&150# | — | — |
| | V&200# | — | — |
| Compound | V&300# | — | — |
| | 1.5# | 100MB | 3IM |
| | 5# | 400MB | 10IM |
| | — | 600MB | — |
| | 10# | — | 20IM |
| | 15# | 1BR | 30IM |
| | — | 1.6BR | 50IM |
| | 30# | 2BR | — |
| | — | 2.5BR | — |
| | 45# | — | — |
| | 50# | — | 100IM |
| | 60# | 4BR | — |
| | 75# | — | — |
| | — | 6BR | — |
| | 100# | — | 200IM |
| | 150# | 10BR | 300IM |
| | 200# | — | — |
| | — | 16BR | — |
| | 250# | — | 500IM |
| | 300# | 20BR | — |
| — | 25BR | — | |
| 500# | — | 1000IM | |
| — | 40BR | — | |
| 750# | — | — | |
| — | 60BR | — | |
| 1000# | — | — | |
| 1500# | 100BR | — | |
| 2000# | 160BR | — | |
| — | 200BR | — | |
| 2500# | — | — | |
| 3000# | — | — | |
| — | 250BR | — | |
| 5000# | — | — | |
| — | 400BR | — | |
| 7500# | — | — | |
| — | 600BR | — | |
| 10000# | — | — | |
| 15000# | 1000BR | — | |
| 20000# | — | — | |
| Absolute Pressure (psia) | 15#A | 1BRA | 30IMA |
| | — | 1.6BRA | 50IMA |
| | 30#A | 2BRA | — |
| | — | 2.5BRA | — |
| | 50#A | — | 100IMA |
| | — | 4BRA | — |
| | — | 6BRA | — |
| | 100#A | — | 200IMA |
| | — | 10BRA | 300IMA |
| | 200#A | — | — |
| — | 16BRA | 500IMA | |
| 300#A | 20BRA | 1000IMA | |
| 500#A | 25BRA | — | |

Data Sheet

E2X-E2F Explosion-Proof Pressure Transducer

DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings



TruAccuracy

What Does It Mean?

Ashcroft's TruAccuracy™ specification is exclusively based on terminal point methodology instead of statistically derived schemes like 'best fit straight line'.

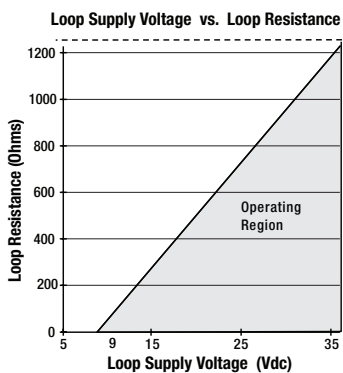
TruAccuracy™ means the Ashcroft E2X-E2F has ±0.25% accuracy out of the box. Zero and span setting errors are already included in the ±0.25% accuracy spec.

The E2X-E2F is ready to be installed with no additional calibration adjustments required.

A unit from another manufacturer advertised as ±0.25% best fit straight line may actually be a ±1.25% to ±2.25% device. Using best fit straight line method, the accuracy spec does not include zero and span setting errors, which can be as much as ±1.00% each.

LOOP SUPPLY VOLTAGE CHART

FOR TRANSMITTERS WITH 4-20mA OUTPUT SIGNAL, THE MINIMUM VOLTAGE AT THE TERMINAL IS 9VDC



$V_{MIN} = 9V + (0.022A \times R_{LOOP})$ (*includes a 10% safety factor)
 $R_{LOOP} = R_{SENSE} + R_{WIRING}$
 $R_{LOOP} = \text{Loop Resistance (Ohms)}$
 $R_{SENSE} = \text{Sense Resistance (Ohms)}$
 $R_{WIRING} = \text{Wire Resistance (Ohms)}$

NOTE: See power supply requirement chart for maximum supply voltage limits