**Grounding**

Avoid ground loops by ensuring that all neutral and ground connections are solidly linked to the ground. If using a ground to power the instrument, be sure to check each box as appropriate to indicate the protection methods used in each particular installation.

**Mechanical Installations**

All lines need to be depressurized when servicing the instrument. For maximum noise immunity avoid run-of-the-wall conduits, instead run metallic conduit. For minimum noise susceptibility, avoid run-of-the-wall conduits, instead run metallic conduit.

**Spatial Limits**

Electrical connection: should be made prior to installation and mechanical assembly. Connections to meet your application requirements.

**EMC**

Ashcroft® Series 825A030 conforms to the requirements of the European Union's directive on the reduction of electrical and electronic equipment (WEEE). The model E2F is traceable and certified to the following standards:

**Safety**

To avoid damage to both the instrument and the pressure component that it is measuring, the ASHCROFT® E2F has been designed to withstand a maximum pressure of 1.4X pressure range. 

**Technical Specifications**

*Pressure Test:* 1.6X maximum pressure range

**Temperature Limits**

Storage: -40 °C to 85 °C

**Output**

Output: 4-20 mA

**Calibration**

The factory calibration is done at ambient temperature, pressure, and at atmospheric pressure. While the Porex filter is placed between the transducer body, and is not a suitable ground.

**Electrical Specifications**

*Input Power:* 9-36 VDC

**Safety**

Correct disposal can put the environment and human health at risk. Incorrect disposal can put the environment and human health at risk.

**Maintenance**

The device does not require maintenance. In order to prevent moisture condensation and a long service life, the device must be kept in a cool, dry environment with the top cover removed only in the packaging intended for transport.

**Disposal**

The device is designed to be used in explosive atmospheres (ATEX). The device should be disposed of in accordance with the local regulations for the disposal of electrical and electronic equipment.
HAZARDOUS AREA CERTIFICATIONS

- CL I Div 1 A,B,C,D T4
- CL II Div 1 E,F,G T4
- CL III T4

CL I, Zone 1 AEx db IIC T4 Gb -40°C ≤ Ta ≤ 80°C

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

Factory Sealed M20X1.5 THD or ½ Male NPT IP67

GENERAL NOTES

- Control equipment connected to Hazardous (classified) area must be certified FM and UL or TUV.
- All associated apparatus manufacturer’s installation drawing must be followed when installing this equipment.
- Run standard interconnection cable with shield connected to the approved associated apparatus ground.

WARNING:

- Do not disconnect equipment unless area is known to be non-hazardous.
- Substitution of components may impair suitability for hazardous (classified) location.
- No modification or omission without prior approval from FM.

Special Conditions of Use

- The pressure transducer shall not be subjected to an E2F time domain strength test between the circuit and the earth ground. This must be taken into account during testing.
- Transformers are not for repair.
- The equipment can carryelden conductors that are not shielded.
- No high voltage test or continuous test over 110 Vrms is required to be connected to equipment enclosed into the external supply circuit.
- Installer must connect the device to appropriate earthing connection. The circuit shows any metallic plumbing, use of metallic conduit/straps, and/or earthing connections provided in the drawing.

Warnings

- Do not disconnect equipment unless area is known to be non-hazardous.
- Substitution of components may impair suitability for hazardous (classified) location.
- No modification or omission without prior approval from FM.

Special Conditions of Use

- The pressure transducer does not withstand a 500 Vrms dielectric strength test between the circuit and the earth ground. This must be taken into account during installation.
- Flamepaths are not for repair.
- The equipment has flying lead conductors that exit the enclosure. A suitably certified Ex d or Ex e terminal box is required to be connected to the equipment enclosure and to complete to external supply circuit.
- Installer must connect the device to appropriate earthing connection. The circuit shows any metallic plumbing, use of metallic conduit/straps, and/or earthing connections provided in the drawing.

Warnings

- Do not disconnect equipment unless area is known to be non-hazardous.
- Substitution of components may impair suitability for hazardous (classified) location.
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