

# Model 742D

# **Military Differential Pressure Transducer**



# Description

The 742D Differential Pressure Transducer has been specially designed to meet the needs of military and/or marine applications and conforms to military specification MIL-T-24742 (SH). The 742D accurately measures differential pressures and transmits a fully adjustable 4 to 20 mA or 0-5 VDC output signal for remote display, recording, or control.

The 742D is available in differential ranges from 10 inches of water to 600 psi.

## **Direct Replaceability**

The 742D transducer is directly interchangeable with existing pressure transducers designed to MIL-T-24742. The mounting is designed to match the footprint of existing transducers for quick and easy installation.

### **Minimal Maintenance:**

Calibration is quick and easy with the non-interacting zero and span adjustments.

## **Features**

- 742D approved to MIL-T-24742 (SH)
- Non-interacting zero and span adjustments for quick calibration
- Pressure connections conform to MS16142
- Light weight, only 18 oz.

# **Specifications**

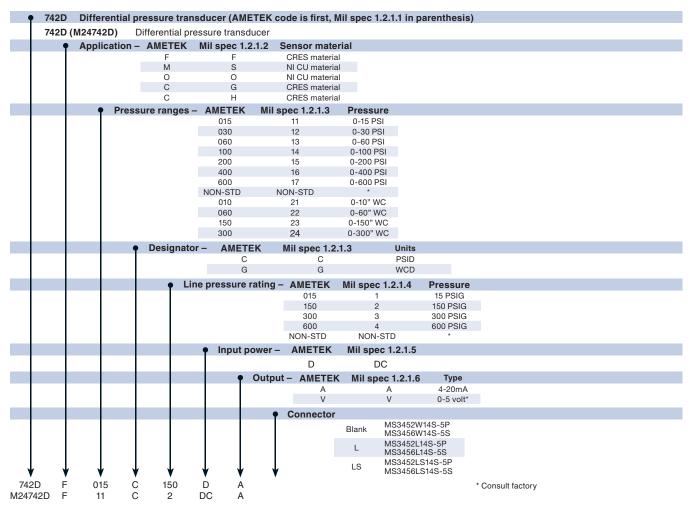
- Functional Specifications: in accordance with MIL-T-24742 (SH)
- **Applications:** steam, sea water, flue gas, ammonia, oxygen, other gases, fresh water, condensate, nitrogen, inert gases and liquid hydrocarbons
- Output: 4-20 mADC, 0-5 VDC
- **Power Supply:** 28 VDC ±4.5 VDC with reverse polarity protection
- Loop Resistance: 0 to 250 ohms
- Zero/Span Adjustments: ±5% full scale output
- Temperature Limits: Compensated: 0°C to 65°C (32°F to 149°F)
- **Overpressure:** 200% of range or maximum rated line pressure (whichever is greater)
- Humidity: 0 to 100% RH
- Volumetric Displacement: less than 0.002 cc
- Weight: 18 oz. (0.51 kg)

### **Performance Specifications:**

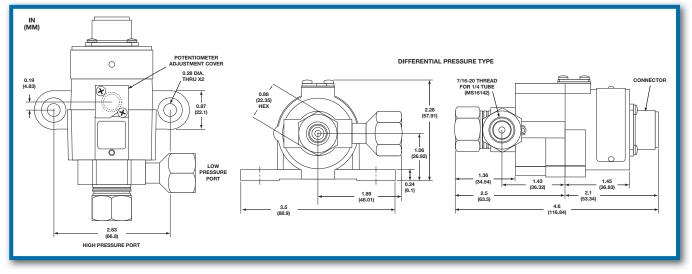
- Accuracy: ±1.0% of calibrated span including linearity, hysteresis, and temperature effects
- Repeatability: within 0.5% of span
- Shock Test: in accordance with Grade-A, Class I, Type C of MIL-S-901
- EMI: in accordance with MIL-STD-462 per MIL-T-24742
- Vibration: in accordance with MIL-STD-167

Tel: 215-355-6900 www.ametekpmt.com

# **Model Numbering:**



# **Dimensions**





820 Pennsylvania Boulevard • Feasterville, PA 19053 • U.S.A. Tel: 215-355-6900 • Fax: 215-354-1802 • www.ametekpmt.com

© AMETEK, Inc. All rights reserved • Printed in the U.S.A. • PDF608 (110082) K796463