



# Certificate of Compliance

**Certificate:** 2561438

**Master Contract:** 212120

**Project:** 2700506

**Date Issued:** March 14, 2014

**Issued to:** American Sensor Technologies, Inc.

450 Clark Dr  
Mount Olive, NJ 07828  
USA  
Attention: Ken Trumper

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



*Jelena Dzeletovic*

**Issued by:** Jelena Dzeletovic

## **PRODUCTS**

**CLASS 2258 82** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -  
Certified to US Standards

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

**Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1:**

**Ex d IIC T5 Gb:**

**AEx d IIC T5 Gb:**

Model AST 46DS Series Explosionproof pressure transducers with the following ratings: Electrical Input: 8 -28Vdc; Electrical Output: 1-5Vdc or 4-20mA; -40 Deg. C < Tamb. < +85°C; -40 Deg. C < Process Temp. < +125°C; Maximum Working Pressure for highest pressure sensors: 137.9 MPa (20000 psi); Single Seal; Enclosure Type 4X; Temperature Code: T5.

Nomenclature:



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AST 46DS abcdeXghij

Where : a (fitting information) = A, B, C, D, E, F, G, H, I, J, K, L, M, N, P, R, S, T, U, V, W, Z

b (pressure reference) = 0, 1, 2, A, C, G, V (Models with suffix G or V not suitable for Class II)

c (pressure) = 0000 to 9999

d (pressure unit) = B, H, K, M, P

e (electrical outputs) = 3, 4

f (electrical connection) = 2

g (header material) = 0,1,2, 3, 4, 6

h,i,j (special calibration) = eg: tolerances

g (header material) = 0,1,2, 3, 4, 6

h,i,j (special calibration) = eg: tolerances

### **APPLICABLE REQUIREMENTS**

C22.2 No. 0-10 - General Requirements – Canadian Electrical Code, Part II

C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures

CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

CAN/CSA-C22.2 No. 60079-0:11 - Explosive Atmospheres - Part 0: Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

CAN/CSA-C22.2 No. 60079-1:11 - Explosive Atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

FMRC 3600-2011 - Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements

FMRC 3615-2006 - Explosionproof Electrical Equipment, General Requirements

FMRC 3810-2005 - Electrical and Electronic Test, Measuring, and Process Control Equipment

ISA S82.02.01 2nd (IEC 61010-1 Mod) (2nd Ed.) - Safety Standards for Electrical and Electronic Test, Measuring, Controlling and Related Equipment - General Requirements.



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ANSI/ISA 60079-0:09 - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements

ANSI/ISA 60079-1:09 - Electrical Apparatus for Explosive Gas Atmospheres - Part 1: Flameproof Enclosures "d"

ANSI/NEMA 250 – 1991 - Enclosures for Electrical Equipment

ANSI/ISA 12.27.01-2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids