



Certificate of Compliance

Certificate: 2561438

Master Contract: 212120

Project: 2647262

Date Issued: March 4, 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 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

APPLICABLE REQUIREMENTS

- | | |
|---------------------------------|---|
| C22.2 No. 0-10 | - General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 25-1966(R2009) | - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations |
| C22.2 No. 30-M1986(R2012) | - Explosion-Proof Enclosures for Use in Class I Hazardous Locations |
| CAN/CSA-C22.2 No. 94-M91(R2011) | - 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 - 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 |



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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.

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