



Certificate of Compliance

Certificate: 2734453

Master Contract: 212120

Project: 2734453

Date Issued: September 25, 2014

Issued to: American Sensor Technologies, Inc.

450 Clark Dr
Mount Olive, NJ 07828
USA
Attention: Greg Montrose

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

Ex d IIC Gb, AEx d IIC Gb;

Model 54ED Series Explosionproof pressure transducers with the following ratings: Electrical Input: 5V dc or 10 –28Vdc; Electrical Output: 0.5-4.5Vdc ratiometric, 0-5Vdc, 1-5Vdc, 4-20mA, 0-10Vdc, 1-6Vdc, 0.5-5.5Vdc, 0.25-5Vdc, 1-10Vdc, 0.1-5.1Vdc, 0-5Vdc 4wire, 0-10Vdc 4wire, 0.25-4.75Vdc ratiometric, 0.5-4.5Vdc, or 28V sourcing solid state relay; -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; Temperature Code: T5.

Class I, Division 2, Groups A, B, C, D;



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Ex nA IIC Gc, AEx nA IIC Gc;

Model 54EN Series Nonincendive pressure transducers with the following ratings: Electrical Input: 5V dc or 10 –28Vdc; Electrical Output: 0.5-4.5Vdc ratiometric, 0-5Vdc, 1-5Vdc, 4-20mA, 0-10Vdc, 1-6Vdc, 0.5-5.5Vdc, 0.25-5Vdc, 1-10Vdc, 0.1-5.1Vdc, 0-5Vdc 4wire, 0-10Vdc 4wire, 0.25-4.75Vdc ratiometric, 0.5-4.5Vdc, or 28V sourcing solid state relay; -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; Temperature Code: T5.

Nomenclature:

54E abcdefghijk (-Z = CRN, SS, or other non-performance related)

Where :a (protection method) = D, N

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

c (pressure) = 00000 to 99999

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

e (electrical outputs) = 1, 2, 3, 4, 5, 6, 8, 9, G, J, K, L, M, P

f (electrical connection) = I, L, M, N, P, T, U, W, X, Y, 1, 4

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

h (differential pressure) = 0000 to 9999

i (fault condition) = N, L, H

j,k (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
- C22.2 No. 142-M1987 (R2009) - Process Control Equipment
- C22.2 No. 60079-0:11 - Explosive atmospheres – Part 0: Equipment – General requirements



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- C22.2 No. 60079-1:11 enclosures “d” - Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
- C22.2 No. 60079-15:12 Construction, test and marking of type of protection “n” electrical apparatus - Electrical apparatus for explosive gas atmospheres – Part 15: Construction, test and marking of type of protection “n” electrical apparatus
- ANSI/UL 60079-0:09 - Explosive atmospheres – Part 0: Equipment – General Requirements
- ANSI/UL 60079-1:13 Enclosures “d” - Explosive atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
- ANSI/UL 60079-15:12 protection “n” (Edition 4) - Explosive atmospheres – Part 15: Equipment protection by type of protection “n” (Edition 4)
- ANSI/ISA 12.27.01-2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids
- UL 916 - Standard for Safety, Energy Management Equipment
- UL 508 (17th Ed.) - Industrial Control Equipment
- UL 1203 (4th Ed.) in Hazardous (Classified) Locations - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
- FM 3600 1998 General Requirements - Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements
- FM 3615 2006 - Explosion proof Electrical Equipment – General requirements