Certificate of Compliance

Certificate: 2355301 **Master Contract:** 169790

Project: 2535301 **Date Issued:** June 28, 2012

Issued to: **Pepperl+Fuchs GmbH**

Lilienthalstrasse 200
Mannheim, 68307
Germany
Attention: Martin Bartsch

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.

Andrew Sargent

Issued by: Andrew Sargent

PRODUCTS

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - - For Hazardous Locations - Certified to US Standards

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

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

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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CLASS 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Class I, Division 1, Groups A, B, C, D, T4; Class II, Division 1, Groups E, F, G; Class III

Ex ia IIC T4 Gb

Wireless HART adapter - WHA-ADP Series - Model: WHA-ADP-F8B2-a-Ab-Z1-c.

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Temperature code T4, ambient temperature range -40C to +60C, enclosure Type 4X. Battery operated, using battery pack part number W-BAT-B2-Li. Intrinsically Safe with entity parameters of: Uo (Voc) = 26V; Io (Isc) = 98mA; Po = 631mW; Co (Ca) = 79.6 nF; Lo = 3.46mH, and Ui (Vmax) = 30V; Ii (Imax) = 100mA; Pi = 3W; Ci = 20.4 nF; Li = 120 uH, when installed per IS Control drawing 116-0371.

Where:

a = Thread adapter type: N = 1/2 inch NPT, T = 3/4 inch NPT, P = PG (DIN 40430) screw thread, S = M20 screw thread, 0 = No thread adapter

b = Cable gland material: P = Plastic, 0 = no cable gland

c = Inputs: Ex1 = 1 Input (4…20mA + HART), NIL = no input

CLASS 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations – Certified to U.S. Standards

Class I, Division 1, Groups A, B, C, D, T4; Class II, Division 1, Groups E, F, G; Class III

Class I, Zone 1 AEx ia IIC T4 Gb

Wireless HART adapter - WHA-ADP Series - Model: WHA-ADP-F8B2-a-Ab-Z1-c.

Temperature code T4, ambient temperature range -40C to +60C, enclosure Type 4X. Battery operated, using battery pack part number W-BAT-B2-Li. Intrinsically Safe with entity parameters of: Uo (Voc) = 26V; Io (Isc) = 98mA; Po = 631mW; Co (Ca) = 79.6 nF; Lo = 3.46mH, and Ui (Vmax) = 30V; Ii (Imax) = 100mA; Pi = 3W; Ci = 20.4 nF; Li = 120 uH, when installed per IS Control drawing 116-0371.

Where:

a = Cable entry adapter type: N = 1/2 inch NPT, T = 3/4 inch NPT, P = PG (DIN 40430) screw thread, S = M20 screw thread, 0 = No cable entry adapter

b = Cable gland material: P = Plastic, 0 = no cable gland

c = Inputs: Ex1 = 1 Input (4…20mA + HART), NIL = no input

CLASS 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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CLASS 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS

Class I, Division 2, Groups A, B, C, D, T4; Class II, Division 2, Groups F, G; Class III

Wireless HART adapter - WHA-ADP Series with aluminum enclosure - Model: WHA-ADP-F8B2-a-Ab-Z1-c. Temperature code T4, ambient temperature range -40C to +60C. Enclosure Type 4X. Battery operated, using battery pack part number W-BAT-B2-Li.

Where:

a = Cable entry adapter type: N = 1/2 inch NPT, T = 3/4 inch NPT

b = Cable gland material: P = Plastic, 0 = no cable gland

d = Inputs: Ex1 = 1 Input (4…20mA + HART), NIL = no input

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-10 *August 2011*	General requirements — Canadian Electrical Code, Part II
CSA C22.2 No. 25-1966 *(Reaffirmed 2009)*	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CAN/CSA-C22.2 No. 94.1-07 *First Edition*	Enclosures for Electrical Equipment, Non-Environmental Considerations
CSA C22.2 No. 94.2-07 *First Edition*	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA-C22.2 No. 61010-1-04 *(Reaffirmed 2009)*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
CSA C22.2 No. 213-M1987 *(Reaffirmed 2008)*	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11 *(December 2011)*	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-11:11 *(December 2011)*	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”

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ANSI/UL 50-2007 *Twelfth Edition (September 4, 2007)*	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 50E-2007 *First Edition (September 4, 2007)*	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL 61010-1-2008 *Second Edition (October 28, 2008)*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
FMRC 3810 – 2005	Electrical and Electronic Test, Measuring, and Process Control Equipment
FMRC 3600 – 1998	Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements
FMRC 3610 – 2007	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1 Hazardous (Classified) Locations
FMRC 3611 – 2004	Nonincendive Electrical equipment for Use in Class I and Class II, Division 2, and Class III, Division 1 and 2 Hazardous (Classified) Locations
ANSI/ISA-60079-0 (12.00.01)-2009	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
ANSI/ISA-60079-11 (12.02.01)-2009	Electrical Apparatus for Explosive Gas Atmospheres Part 11: Intrinsic Safety "i"

MARKINGS

The following markings are provided on one or more CSA Certified adhesive nameplate(s), designated 32052008 Polymatic 50, silver semi-matt, manufactured by Woelco AG (CSA File 059424), affixed to polyester powder coated metal. Rated maximum ambient temperature 150°C. Nameplates are affixed to the side of the housing and on the adjacent hinged cover.

- Manufacturer’s name: "Pepperl + Fuchs GmbH", or CSA Master Contract Number “169790”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- Model number: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMYY format, or serial number, traceable to year and month of manufacture.
- Enclosure rating: “Type 4X”.
- The words: “Use Battery W-BAT-B2-Li”.

- The CSA Mark, with or without “C” and “US” indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Method of Protection markings (Ex -- markings): As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- The following words:
  - » “Exia”.
  - » “Intrinsically Safe”.
  - » “WARNING: Substitution of components may impair intrinsic safety”.
  - » “Install per drawing 116-0371”.
- The following words, or suitable equivalent:
  - » “WARNING – EXPLOSION HAZARD - Substitution of components may impair suitability for Class I, Division 2.”
  - » “WARNING – EXPLOSION HAZARD – Do not connect while circuit is live unless area is known to be nonhazardous.”
- The following optional markings may be used adjacent to the Class I, Division 2 markings: “Class I, Zone 2, Group IIC”.

The following markings are also permanently applied in the locations specified:

- Terminal Designations adjacent to each field wiring terminal.
- The designation “GROUND”, “GND”, or ISO 60417, Symbol 5019 adjacent to the equipment ground terminal.

An Control Drawing, installation manual, or data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturer’s name and address.
- Electrical ratings.
- Specification for ambient temperature rating of -40°C to +60°C.
- Specification for replacement battery pack, by P+F part number W-BAT-B2-Li.

- The following words, or suitable equivalent:

» This equipment is suitable for installation in Class I, Division 2, Group A, B, C, D hazardous locations or nonhazardous locations only.

» WARNING - Explosion Hazard. Do not connect or disconnect this equipment unless power has been removed or the area is known to be nonhazardous.

» WARNING - Explosion Hazard. Substitution of components may impair suitability for Class I, Division 2.

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".