Certificate of Compliance

Certificate: 2236405 **Master Contract:** 248490 (248490)

Project: 70142119 **Date Issued:** 2017-09-13

Issued to: **Schischek GmbH Explosionsschutz**
45 Muhlsteig Gewerbegebiet V
Langenzenn, 90579
GERMANY
Attention: Arno Butzke

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.

Issued by: *Gary Benden*
Gary Benden

PRODUCTS

CLASS – 2258 02 PROCESS CONTROL EQUIPMENT – For Hazardous Locations
CLASS – 2258 82 PROCESS CONTROL EQUIPMENT – For Hazardous Locations – Certified to US Standards

Class I, Division 1, Groups B, C, and D; Class II, Division 1, Groups E, F, and G; Class III; T4/ T5/ T6;

Electrical Actuator Type ExMax-, Type ExRun-, and Type ExPlus-, rated 24-240 VDC/VAC, 50/60 Hz, 1.5 amps max, -40°C≤T_{amb}≤40° T6 or -40°C≤T_{amb}≤50° T5 or -40°C≤T_{amb}≤60° T4. Enclosure Type 4X.

CLASS – 2258 03 PROCESS CONTROL EQUIPMENT – Intrinsically Safe and Non-Incendive Systems – For Hazardous Locations
CLASS – 2258 83 PROCESS CONTROL EQUIPMENT – Intrinsically Safe and Non-Incendive Systems – For Hazardous Locations – Certified to U.S. Standards

NI, Class I, II, III, Division 2, Groups A, B, C, and D, T6/ T5/ T4; Enclosure 4X;
NI, Class I, II, III, Zone 2, AEx nC [ib] IIC T6 or AEx nC IIC T6; Enclosure 4X;
Ex nC [ib] IIC T6 or Ex nC IIC T6; Enclosure 4X;

Electrical Actuator Type RedMax-, Type RedRun-, and Type RedPlus-, rated 24-240 VDC/VAC, 50/60 Hz, 1.5A max, -40°C≤T_{amb}≤40° T6 or -40°C≤T_{amb}≤50° T5 or -40°C≤T_{amb}≤60° T4. Non-Incendive for Class I, Div. 2, Group A, B, C, and D per Control Drawing XA and providing Intrinsically Safe circuits for Class I, Div. 1, Group A, B, C, and D; Class II, Div. 1, Groups E, F, and G; Class III.

Maximum Entity and Nonincendive Field Wiring Parameters for:

IS Sensor circuit				
Wire (plug) for external sensor linear characteristic	$V_{oc} = U_0 \leq 10.6$ VDC			
	$I_{sc} = I_0 \leq 22$ mA			
	$P_0 \leq 60$ mW			
		Groups		
		A&B/IIC	C/IIB	D/IIA
	$C_a = C_0 \leq$	200 nF	1000 nF	2000 nF
	$L_a = L_0 \leq$	1 mH	5 mH	10 mH

XP, Class I, Zone 1, AEx d [ib] IIC T6/ T5/ T4
Ex d [ib] IIC T6/ T5/ T4

Electrical Actuator Type ExMax-, Type ExRun-, and Type ExPlus-, rated 24-240 VDC/VAC, 50/60 Hz, -40°C≤T_{amb}≤40° T6 or -40°C≤T_{amb}≤50° T5 or -40°C≤T_{amb}≤60° T4. Explosion-Proof and Dust-Tight with intrinsically safe circuits, connected per Control Drawing XA.

The actuator is an explosion proof device suitable for installation in hazardous (classified) locations. The electrical actuator is used for adjust dampers, valves, fire shutter, etc.

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

Ex ia IIC T6/T5/T4 Gb
Class II, Division 1, Groups EFG, T80°C Db

Model ExPro-TT temperature sensor / probe, intrinsically safe when installed per control drawing XA. ExPro-TT.01.0; entity parameters: U_i = 30 VDC, I_i = 22 mA, P_i = 60 mW, -40°C≤T_{amb}≤72° T6 or -40°C≤T_{amb}≤87° T5 or -40°C≤T_{amb}≤102° T4.

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

Class I, Zone 1, AEx ia IIC T6/T5/T4 Gb
Class II, Zone 21, AEx tb IIIC T80°C Db

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Model ExPro-TT temperature sensor / probe, intrinsically safe when installed per control drawing XA. ExPro-TT.01.01; entity parameters: U_i = 30 VDC, I_i = 22 mA, P_i = 60 mW, -40°C≤T_{amb}≤72° T6 or -40°C≤T_{amb}≤87° T5 or -40°C≤T_{amb}≤102° T4.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 0-M91 *(Reaffirmed 2006)*	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
CSA C22.2 No. 30-M1986 *(Reaffirmed 2007)*	Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products – Third Edition
CSA C22.2 No. 94-M91 *(Reaffirmed 2006)*	Special Purpose Enclosures
CSA C22.2 No. 157-92 *(Reaffirmed 2006)*	Intrinsically Safe and Non-incendive Equipment for use in Hazardous Locations
CSA C22.2 No. 213-M 1987 *(Reaffirmed 2008)*	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
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. 61010-1-12 *(May 2012)*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
CSA C22.2 No. 60079-0-07	Electrical apparatus for explosive gas atmospheres – Part 0: General requirements.
CSA C22.2 No. 60079-1-07	Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosures "d"
CSA E60079-11-02 *(Reaffirmed 2006)*	Electrical apparatus for explosive gas atmospheres – Part 11: Intrinsic Safety “i”
CAN/CSA-C22.2 No. 60079-11:11 *(December 2011)*	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”
CSA E60079-15-02 *(Reaffirmed 2006)*	Electrical apparatus for explosive gas atmospheres – Part 15: Type of protection “n”
CAN/CSA-C22.2 No. 60079-31:12 *(January 2012)*	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”
ANSI/UL 61010-1 *Third Edition (May 11, 2012)*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
UL Standard No. 50:2007	Enclosures for Electrical Equipment
ANSI/UL Standard 913	Intrinsically Safe Apparatus and Associated Apparatus For Use in Class I, II and III, Div. 1 Hazardous (Classified) Locations
UL 969	Marking and Labeling Systems – Fourth Edition; Reprint with revisions through and including November 24, 2008

UL 1203	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations - Fourth Edition; Reprint with Revisions through and Including October 28, 2009
ANSI/UL Standard 1604	Non-incendive Equipment for use in Class I, Division 2 hazardous locations
ANSI/UL 60079-0-2009 *Fifth Edition (October 21, 2009)*	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-11-2011 *Fifth Edition (May 5, 2011)*	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"
ANSI/ISA-60079-31 (12.10.03)-2009	Explosive Atmospheres – part 31: Equipment Dust Ignition Protection by Enclosure "t"

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Nameplate adhesive label material approval information:

The following markings are provided on a CSA Accepted (Class 7923.01) or UL Recognized to Canadian requirements (PGJI8) and UL Recognized (PGJI2) or CSA Accepted to US Standards (Class 7923.81) or CSA Certified (Class 7921-01) and UL Recognized (PGDQ2) adhesive nameplate, which is suitable for indoor/outdoor use, at a maximum service temperature of 135°C or higher. Nameplate is affixed to the outside of the housing.

All models:

- Manufacturer's name: "Schischek", or CSA Master Contract Number "248490", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Maximum ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMYY format, or serial number, traceable to month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark with or without "C" and/or "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).

- Temperature code: As specified in the PRODUCTS section, above.

ExMax ExRun, ExPlus models only as appropriate:

- The following words:
  - "SEAL REQUIRED WITHIN 18 INCHES"
  - "SEAL REQUIS DANS LES 18 POUCES"
  - "[Ex ia]"
  - The words: "ASSOCIATED EQUIPMENT"
  - "WARNING: Substitution of components may impair intrinsic safety."
  - "AVERTISSMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE"
  - "Install per drawing XA"

RedMax, RedRun, RedPlus models only:

- The following words:
  - "WARNING – EXPLOSION HAZARD – Do not connect while circuit is live unless area is known to be nonhazardous."
  - "AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, A MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT NON DANGEREUX."
  - "WARNING-EXPLOSION HAZARD – Substitution of components may impair suitability for Class I, Division 2"
  - "AVERTISSEMENT – RISQUE D'EXPLOSION – LA SUBSTITUTIOND E COMPOSANTSP EUTR ENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2."

ExPro-TT model only:

- The following words:
  - "Ex ia".
  - "Intrinsically Safe"
  - "WARNING: Substitution of components may impair intrinsic safety."
  - "AVERTISSMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE"
  - "Install per drawing XA.ExPro-TT.01.01"

Division 2 models only:

An installation manual or data sheet shall be supplied with each unit, containing the following minimum marking information *(as appropriate)*:

- Manufacturer's name and address
- Electrical ratings: As specified in the PRODUCTS section, above.
- Specification for ambient temperature rating: As specified in the PRODUCTS section, above.
- Mounting and installation instructions, including dimensions, and the following words, or equivalent:
  - Wiring to or from this device, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.

- 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.

Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70142119	2017-09-13	Update to Report 2236405 to cover changes to non-intrinsically safe circuits and intrinsically safe circuits on the control board and operating unit control board.
70105985	2017-02-24	Update of report 2236405 as in report 267226, to add Class numbers 4418 05 and 4418 85 as well as Category Codes QCRV2 and QCRV8 to the Cable Gland section.
70058495	2016-01-29	Evaluation to update Report 2236405 to include updated drawings in order to align ATEX models/drawings with North American models/drawings.
2716313	2014-07-22	Update to report 2236405 to add ExPro-TT sensor.
2344516	2011-03-25	Update to report 2236405 to include CCSAUS Class I, Division 1 Groups B, C and D; Class II, Division 1, Groups E, F and G; Class III.
2236405	2010-05-28	Original Certification of Electrical Actuator Type RedMax-.., Type RedRun-.., Type RedPlus-.., Type ExMax-.., Type ExRun-..and Type ExPlus-..