



# Certificate of Compliance

**Certificate:** 2236405

**Master Contract:** 248490

**Project:** 80038443

**Date Issued:** 2021-08-17

**Issued To:** Schischek GmbH Explosionsschutz  
Muhlsteig 45  
Langenzenn, Bavaria, 90579  
Germany

**Attention:** Florian Causevic

*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,  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 40^{\circ}$  T6, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 50^{\circ}$  T5, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}$  T4. Enclosure Type 4X.

**Class I, Division 2, Groups A, B, C, and D, T6/ T5/ T4**

**Class I, Zone 2, AEx db ec IIC T6/ T5/ T4 Gc**

**Ex db ec IIC T6/ T5/ T4 Gc**



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Electrical Actuator Type RedMax-, Type RedRun-, and Type RedPlus-, rated 24-240 VDC/VAC, 50/60 Hz, 1.5A max,  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 40^{\circ}$  T6, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 50^{\circ}$  T5, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}$  T4. Enclosure Type 4X.

**Class II, Division 1, Groups EFG, T80°C**  
**Zone 21, AEx tb IIC T80°C Db**

Model ExPro-TT temperature sensor / probe, ExPro-TT.01.01

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

**Class I, Zone 1, AEx db [ib] IIC T6/ T5/ T4 Gb**  
**Ex db [ib] IIC T6/ T5/ T4 Gb**

Electrical Actuator Type ExMax-, Type ExRun-, and Type ExPlus-.  
Rated 24-240 VDC/VAC, 50/60 Hz  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 40^{\circ}$  T6, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 50^{\circ}$  T5, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}$  T4.  
Flameproof, with associated intrinsically safe circuits when connected per Control Drawing XA.

CLASS – 2258 04      PROCESS CONTROL EQUIPMENT – Intrinsically Safe, Entity – For Hazardous Locations  
CLASS – 2258 84      PROCESS CONTROL EQUIPMENT – Intrinsically Safe, Entity – For Hazardous Locations  
Certified to US Standards

**Ex ia IIC T6 Gb**  
**Class I, Zone 1, AEx ia IIC T6 Gb**

Model ExPro-TT temperature sensor / probe. Intrinsically safe when installed per control drawing XA.ExPro-TT.01.01-en. Entity parameters:  $U_i = 30$  VDC,  $I_i = 25$  mA,  $P_i = 60$  mW,  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 72^{\circ}$  T6.

**Class I, Zone 2, AEx db ec [ic] IIC T6/ T5/ T4 Gc**  
**Ex db ec [ic] IIC T6/ T5/ T4 Gc**

Electrical Actuator Type RedMax-, Type RedRun-, and Type RedPlus-, rated 24-240 VDC/VAC, 50/60 Hz, 1.5A max,  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 40^{\circ}$  T6, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 50^{\circ}$  T5, or  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}$  T4. Associated Intrinsically Safe circuits for Class I, Zone 2, Group IIC, IIB, and IIA; Enclosure Type 4X.

Intrinsically Safe Field Wiring Entity Parameters for Sensor circuit:



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Wire (plug) for external sensor linear characteristic	$V_{oc} = U_0 \leq 10.6 \text{ VDC}$			
	$I_{sc} = I_0 \leq 25 \text{ mA}$			
	$P_0 \leq 60 \text{ mW}$			
		Groups		
		IIC	IIB	IIA
$C_a = C_0 \leq$	200 nF	1000 nF	2000 nF	
$L_a = L_0 \leq$	1 mH	5 mH	10 mH	

**APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-M91 <i>(Reaffirmed 2006)</i>	General Requirements – Canadian Electrical Code, Part II
CSA C22.2 No. 25-1966 <i>(Reaffirmed 2009)</i>	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA C22.2 No. 30-M1986 <i>(Reaffirmed 2007)</i>	Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products – Third Edition
CSA C22.2 No. 94.2-15 <i>(Second Edition)</i>	Enclosures for electrical equipment, environmental considerations
CAN/CSA C22.2 No. 213-17 +UPD1 (2018) +UPD2 (2019)	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) 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 <i>(May 2012)</i>	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 60079-0-07	Electrical apparatus for explosive gas atmospheres – Part 0: General requirements.
CAN/CSA C22.2 No. 60079-1:16	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures "d"
CAN/CSA-C22.2 No. 60079-7:16 <i>(October 2016)</i>	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
CAN/CSA-C22.2 No. 60079-11:14 <i>(February 2014)</i>	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"
CAN/CSA-C22.2 No. 60079-31:12 <i>(January 2012)</i>	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
ANSI/UL 61010-1-2012 <i>Third Edition (May 11, 2012)</i>	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
ANSI/UL 50E-2015 <i>Second Edition</i>	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL Standard 913 <i>Seventh Edition</i>	Intrinsically Safe Apparatus and Associated Apparatus For Use in Class I, II and III, Div. 1 Hazardous (Classified) Locations



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ANSI/UL 1203-2015 <i>Fifth Edition</i>	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 60079-0-2009 <i>Fifth Edition (October 21, 2009)</i>	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1-2020 <i>Seventh Edition (September 18, 2015)</i>	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/UL 60079-7-2017 <i>Fifth Edition (February 24, 2017)</i>	Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety “e”
ANSI/UL 60079-11-2018 <i>Sixth Edition (February 15, 2013)</i>	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.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.



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- The CSA Mark with or without “C” and/or “US” indicators, as shown on the Certificate of Conformity.
- Certificate Number: “10.2236405” if near CSA Mark or “CSA10.2236405” if not near CSA Mark.
- Hazardous Location designation: As specified in the PRODUCTS section, above. Note: The word “Class” may be abbreviated “CL”, the word “Division” may be abbreviated “DIV”, and the word “Groups” may be abbreviated “GRP” or “GP”.
- 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 ib]”
  - The words: “ASSOCIATED EQUIPMENT”
  - “WARNING: Substitution of components may impair intrinsic safety.”
  - “AVERTISSEMENT: 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 SUBSTITUTION D E COMPOSANTS PEUT 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.”
  - “AVERTISSEMENT: 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



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- 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.
    - “AVERTISSEMENT- Risque d'explosion. Ne connectez ou déconnectez pas cet équipement à moins que l'alimentation ait été coupée ou que la zone ne soit pas dangereuse”
    - WARNING - Explosion Hazard. Substitution of components may impair suitability for Class I, Division 2.
    - “AVERTISSEMENT- Risque d'explosion. La substitution de composants peut nuire à la compatibilité avec la Classe 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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80038443	2021-08-17	Update to Report 2236405 to include change of the intrinsically safe values from 22mA to 25mA, and elimination of unnecessary temperature class T5 and T4 along with associated drawing updates (ExPro-TT). Updates to standards and markings, and updates to 21 drawings (in addition to updates to 4 drawings for ExPro-TT).
80028783	2020-04-13	Update to Report 2236405 to change the housing material for the d-enclosure, and evaluate all changes to new version 9.6 of the PCB.
70170985	2018-02-23	Update to Report 2236405 to add alternate fuse F1 (50 mA) protecting the intrinsically-safe circuit.
70142119	2017-09-13	Update to Report 2236405 to cover changes to non-intrinsically safe circuits and intrinsically safe circuits on control board and operating control board.
70105985	2017-02-24	Update to Report 2236405 as in Report 2672226, 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	Update to 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-..