

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 11 ATEX 1 380 X

Revision 5

(4) Equipment: Controller type ExReg-... and sensors type ExPro-C...

(5) Manufacturer: Schischek GmbH

(6) Address: Mühlsteig 45
90579 Langenzenn
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 11TH0450_05.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

**EN 60079-7:2015,
EN IEC 60079-7:2015/A1:2018**

EN 60079-11:2012

**EN 60079-18:2015,
EN 60079-18:2015/A1:2017**

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2(1)G Ex eb mb ib [ia Ga] IIC T6 Gb

II 2(1)D Ex tb ib [ia Da] IIIC T80°C Db IP66



Certification department of explosion protection

Tuerkheim, 2025-10-29

Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 11 ATEX 1 380 X**

Revision 5

(15) Description of equipment:

The controller type ExReg is used for the control of processes in hazardous locations of zone 1 or zone 21 together with linear or rotary drives. The input values for pressure (ExReg-P, ExReg-V), humidity and temperature (ExReg-D mit ExPro-C) are measured by internal sensors. The appropriate sensors ExPro-C... for temperature and humidity can be used with different length, filters and connection methods. The associated sensors of type ExPro may be applied in hazardous areas of category 2G or 2D. Different sensor variants are available corresponding to the usage site. The internal and external sensors are supplied by intrinsic safe circuits. Also the display and buttons are part of intrinsic safe circuit. External sensors can be connected to the intrinsic safe "ia" outputs of version ExReg-A... for use inside zone 0/20, depending that the sensor has a category 1 approval. The supply terminals and terminals for sensor output and external devices are protected by type of protection "increased safety e". The main part of equipment including fuses and temperature fuses is protected by type of protection "encapsulation m". Also the intrinsic safe part is potted for exclusion of gas. Temperature range is from -20 °C to +50 °C.

For coated housings with a layer thickness of more than 0.2 mm, Ex-marking IIB can be used.

Electrical data:

Supply of device and drive:

(Terminal 1,2 and 4,5)

U = 24 V AC/DC ± 20 %, AC 50...60 Hz

U_m = 30 V

Switch contact:

(Terminal 2,3)

U = 24 V AC/DC ± 20 %, AC 50...60 Hz

I_{max} = 0.5 A

P_{max} = 0.5 W

U_m = 30 V

Drive analog Set Point:

(Terminal 6,7)

I = 4...20 mA

U_m = 30 V

Drive analog value:

(Terminal 8,7)

U = 0...10 V

U_m = 30 V

ExReg-P ; ExReg-D ; Ex-Reg-V

Controller Set Point Analog Input:

(Terminal 9, 10)

U = 0...10 V

ExReg-P-A ; ExReg-D-A ; Ex-Reg-V-A

Drive position analog output:

(Terminal 9, 10)

U = 0...10 V

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(15) Description of equipment: (continuation)

Controller value analog output: $U = 0 \dots 10 \text{ V}$
(Terminal 11, 12)

Controller set point analog input: $U = 0 \dots 10 \text{ V}$
(Terminal 13, 12)

ExReg-P-B ; ExReg-D-B ; ExReg-V-B

BUS A1, B1 $U_m = 7 \text{ V}$
(Terminal 10, 11) $P_{\max, \text{in}} = P_{\max, \text{out}} = 410 \text{ mW}$

BUS A2, B2 $U_m = 7 \text{ V}$
(Terminal 12, 13) $P_{\max, \text{in}} = P_{\max, \text{out}} = 410 \text{ mW}$

ExReg-A

Sensor value analog input $U = 0 \dots 10 \text{ V}$
(Terminal 9, 10)

Controller value analog output $U = 0 \dots 10 \text{ V}$
(Terminal 11, 12)

Controller setpoint analog input $U = 0 \dots 10 \text{ V}$
(Terminal 13, 12)

Connections in ex-i

ExReg-P Type of protection Ex ia IIC
Digital internal pressure sensor $U_o = 7 \text{ V}$
 $I_o = 83 \text{ mA}$
 $P_o = 415 \text{ mW}$

ExPro-C, ExReg_D Type of protection Ex ia IIC
Digital internal temperature and $U_o = 7 \text{ V}$
humidity sensor $I_o = 125 \text{ mA}$
 $P_o = 219 \text{ mW}$

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(15) Description of equipment: (continuation)

ExReg-A

External sensors in two- or three- wire
connection

Type of protection Ex ia/ib IIC

$U_o = 7 \text{ V}$

$I_o = 9 \text{ mA}$

$P_o = 15 \text{ mW}$

Linear characteristic

Ci negligible

Li negligible

(16) Reference number: 11TH0450_05

(17) Special conditions for safe use:

Only for coated enclosure - Warning of electrostatic discharge, see operating instructions.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection



Ulrich Feike

Tuerkheim, 2025-10-28