



(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 17 ATEX 0143X

(4) Product: **Gas-Volume Conversion Device ELCOR, ELCORplus, ELCORplus-indexer
Datalogger DATCOM, DATCOMplus**

(5) Manufacturer: **ELGAS, s.r.o.**

(6) Address: **Semtínská 211, Ohrazenice, 533 53 Pardubice, Czech Republic**

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 17 ATEX 0143X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-11:2012


(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) The marking of the product shall include the following:

 **II 1G Ex ia IIB T4 Ga**

(12) This certificate is valid till: **12.03.2024**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 12.03.2019

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 17 ATEX 0143X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Evaluation according to the newest standards;
- Prolongation of certificate validity.

This supplementary certificate describes the change of electric scheme of product, extends facilities and properties of product and adds next supplementary boards. These are the boards:

- Analog inputs board (AI Module - 2x current loop 4-20mA);
- Analog outputs board (AO Module - 2x current loop 4-20mA);
- Extension board EXT1 with clamps board EXT1-T (2x digital input NAMUR, 6x general digital input, 2x analog input 4-20mA. 2x interface IB1 (RS485) for connection of digital temperature of pressure transmitters;
- Board for connection of external modem (COM0 Module - RS232).

The portfolio of used communication modems 2G and LTE is extended.

The power supply of Gas Volume Corrector is extended by possibility of using battery pack B-036D with increased capacity.

There are minor changes in modem part electric scheme.

Intrinsically safe parameters of new inputs and outputs:

Analog inputs AIN (terminals SLOT1,2 TERMINALS: GND, AI1, GND, AI2)
 $U_i = 28 \text{ V}$, $I_i = 93 \text{ mA}$, $P_i = 660 \text{ mW}$, $C_i = 40 \text{ nF}$. $L_i = 0$

Analog outputs AO (terminals SLOT1,2 TERMINALS: AO1+, AO1-, AO2+, AO2-)
 $U_i = 28 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 660 \text{ mW}$, $C_i = 0,46 \text{ }\mu\text{F}$. $L_i = 0$

Board EXT1

Digital inputs DI1, DI2 (NAMUR) (terminals SLOT0 TERMINALS: DI1+, DI1-, DI2+, DI2-)
 $U_o = 10 \text{ V}$, $I_o = 11 \text{ mA}$, $P_o = 27 \text{ mW}$
Gas Group IIA: $C_o = 100 \text{ }\mu\text{F}$, $L_o = 1 \text{ mH}$
Gas Group IIB: $C_o = 20 \text{ }\mu\text{F}$, $L_o = 1 \text{ mH}$

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Digital inputs DI3-DI8 (terminals EXT1-T: GND, DI3, DI4, DI5, DI6, DI7, DI8)

$U_o = 6,5 \text{ V}$, $I_o = 2 \text{ mA}$, $P_o = 3 \text{ mW}$

Gas Group IIA: $C_o = 100 \mu\text{F}$, $L_o = 100 \text{ mH}$

Gas Group IIB: $C_o = 20 \mu\text{F}$, $L_o = 10 \text{ mH}$

Analog inputs AIN (terminals EXT1-T: GND, AI1, GND, AI2)

$U_i = 28 \text{ V}$, $I_i = 93 \text{ mA}$, $P_j = 660 \text{ mW}$, $C_i = 40 \text{ nF}$, $L_i = 0$

Internal bus IB1 (terminals EXT1-T: GND, U+, D+, D-)

Same parameters as IB0, IB1

Interface RS232 (terminals COM0: GND, CTS, RXD, TXD)

$U_i = 20 \text{ V}$, $I_i = 0,15 \text{ A}$, $\sum P_i = 0,46 \text{ W}$, $C_i = 1 \mu\text{F}$, $L_i = 0$

(16) Report Number.: 17/0143/1

(17) Specific Conditions of Use:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) List of Documentation:

Document/Drawings:	Type of doc	Rev	Date	Nr. of pages
KP 108	46/119	Z 100 0010	01.08.2018	119
User manual	170	1a	02.2019	170
List of Documentation KP108	01/1-01/4	Z 100 001	01.08.2018	4

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