



(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 15 ATEX 0018**

(4) Product: **Flow Switch type FS xy Exia**

(5) Manufacturer: **COMAC CAL s.r.o.**

(6) Address: **Třanovice 239, 739 53 Třanovice, Czech Republic**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 15 ATEX 0018 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) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

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

**EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 50303:2000**

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

**II M1 Ex ia I Ma**  
 **II 1G Ex ia IIC T4..T6 Ga**  
**II 1D Ex ia IIIC Txx°C Da**

(12) This certificate is valid till: **15.02.2022**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 15.02.2017

Page: 1/3



Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 15 ATEX 0018**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Prolongation of certificate validity.

This supplementary certificate modifies the change of electronic scheme of product Flow Switch type FS xy Exia. The active impulse output is left out and the limit value of input power supply current is left out. The product is equipped by one or two possible outputs: active current loop 4-20mA and passive impulse output.

Intrinsically safe parameters:

Power supply: pin 1, 3

$$U_i = 28,5 \text{ V}, C_i = 0, L_i = 0$$

Output impulse, passive: pin 2, 4; 2, 3; 4, 3:

$$U_i = 28,5 \text{ V}, I_i = 115 \text{ mA}, P_i = 0,330 \text{ W}, C_i = 0, L_i = 0$$

Current loop 4-20mA, active: pin 2, 3

Group I

$$U_o = 10,8 \text{ V}, I_o = 196 \text{ mA}, P_o = 0,529 \text{ W}, C_o = 10 \text{ }\mu\text{F}, L_o = 0,2 \text{ mH}$$

Group IIC

$$U_o = 10,8 \text{ V}, I_o = 196 \text{ mA}, P_o = 0,529 \text{ W}, C_o = 1 \text{ }\mu\text{F}, L_o = 15 \text{ }\mu\text{H}$$

Ambient temperature

-20°C to +80°C

-20°C to +40°C

Category 1G

Temperature Class T4

Temperature Class T6

Category 1D

Temperature T135°C

Temperature T85°C

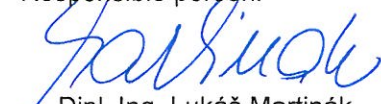
Degree of protection by enclosure: IP66/IP67

(16) Report Number.: 15/0018/1

(17) Specific Conditions of Use:

None

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 15.02.2017

Page: 2/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.

This certificate may only be reproduced in its entirety and without any change, schedule included.

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic  
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

**Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 15 ATEX 0018**

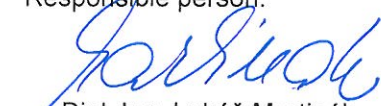
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

<i>Name of document / Drawing:</i>	<i>Date:</i>	<i>Nr. of pages:</i>
FS Exia VPFS	20.01.2017	3
FS Exia VPFS Manual	20.01.2017	9
FS Exia VZS	20.01.2017	2

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 15.02.2017

Page: 3/3