



(1) **Supplement No. 2 to  
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 94/9/EC)**

(3) EC-Type Examination Certificate Number:

**FTZÚ 12 ATEX 0092**

(4) Equipment or protective system: **Flowmeter type FLOW 33Ex ia**

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

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

(7) This supplement of certificate is valid for:

- modification of product
- change of marking
- prolongation of certificate validity
- application of new standards

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 (Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

**EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2007, EN 50303:2000**

(11) Marking of equipment shall contain symbols:

 **I M1 Ex ia I Ma**

 **II 1G Ex ia IIC T6 Ga**

 **II 1D Ex ia IIIC T85°C Da**

(12) This type examination certificate is valid till: **24.04.2020**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 24.04.2015

Page: 1/3

This supplement to certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute  
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 2 to  
EC-Type Examination Certificate N° FTZÚ 12 ATEX 0092

(15) Description of Equipment or Protective System:

In the equipment type FLOW 33EX ia is being expanded by additional category of protection Ga and Da and minor design and parameter changes. The apparatus is manufactured according to the verified documentation shown in clause (19).

Technical parameters:

For group I:

Power Supply:

Pin 1,2 :  $U_i = 28 \text{ V}$ ,  $P_i = 4.8 \text{ W}$ ,  $C_i \approx 0$ ,  $L_i \approx 0$

Output impulse, passive:

Pin 3, 4:  $U_i = 13.6 \text{ V}$ ,  $I_i = 20 \text{ mA}$ ,  $P_i = 0.068 \text{ W}$ ,  $C_i \approx 0$ ,  $L_i \approx 0$

Current loop 4-20 mA, passive:

Pin 5, 6:  $U_i = 28 \text{ V}$ ,  $I_i = 93 \text{ mA}$ ,  $P_i = 0.7 \text{ W}$ ,  $C_i \approx 0$ ,  $L_i \approx 0$

Current loop 0.2-1 mA, active:

Pin 5, 6:  $U_o = 25.2 \text{ V}$ ,  $I_o = 8.8 \text{ mA}$ ,  $P_o = 0.0552 \text{ W}$ ,  $C_o = 2.2 \text{ }\mu\text{F}$ ,  $L_o = 300 \text{ mH}$

For groups IIC and IIIC

Power Supply:

Pin 1,2 :  $U_i = 28 \text{ V}$ ,  $I_i = 120 \text{ mA}$ ,  $C_i \approx 0$ ,  $L_i \approx 0$

Output impulse, passive:

Pin 3, 4:  $U_i = 13.6 \text{ V}$ ,  $I_i = 20 \text{ mA}$ ,  $P_i = 0.068 \text{ W}$ ,  $C_i \approx 0$ ,  $L_i \approx 0$

Current loop 4-20 mA, passive:

Pin 5, 6:  $U_i = 28 \text{ V}$ ,  $I_i = 93 \text{ mA}$ ,  $P_i = 0.7 \text{ W}$ ,  $C_i \approx 0$ ,  $L_i \approx 0$

Current loop 0.2-1 mA, active:

Pin 5, 6:  $U_o = 25.2 \text{ V}$ ,  $I_o = 8.8 \text{ mA}$ ,  $P_o = 0.0552 \text{ W}$ ,  $C_o = 0.06 \text{ }\mu\text{F}$ ,  $L_o = 1 \text{ mH}$

The validity of the certificate is prolonged till 24.04.2020.

(16) Report No.: 12/0092-2

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in clause (10) of this supplement according which the equipment was verified.

Responsible person:

  
Dipl. Ing. Lukáš Martinák

Head of Certification Body



Date of issue: 24.04.2015

Page: 2/3

This supplement to certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute  
Ostrava – Radvanice

(13)

Schedule

(14)

Supplement No. 2 to  
EC-Type Examination Certificate N° FTZÚ 12 ATEX 0092

(19) List of Documentation:

Title:	Date:	Nr. of pages:
Technical conditions FLOW 33Ex ia	20.04.2015	18
ia_VZS DVP DN80	20.04.2015	1
ia_VZS DVP DN150	20.04.2015	1
ia_RJB_DVP01	20.04.2015	4
ia_MGD VPM 02	20.04.2015	2
la_MGD_DSK 01	20.04.2015	1
la_MGD ŽAP PRYŽ/PTFE	20.04.2015	1
la_MGD POS PRYŽ/PTFE	17.04.2015	1
PA01	14.04.2015	1
PA02	14.04.2015	1

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 24.04.2015

Page: 3/3

This supplement to certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.