



Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 02 ATEX 0008X

(4) Equipment or protective system: **Limit level switch type SILOMAX-P**

(5) Manufacturer : **Ing. Drahomír KLIMEŠ**

(6) Address: **Hodonínská 352, 696 21 Prušánky, Czech republic**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 to the Directive.

The examination and test results are recorded in confidential Report N°

02/0008 dated 28 February 2002

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 50014:7+A1+A2 EN 50281-1-1:1998

(10) If the sign „X“ is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.

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

 **II 1/3D IP 65 T=55°C**

This EC-Type Examination Certificate is valid till: **31 March 2007**

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 20 March 2002

Number of pages: 1/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.

FTZÚ, Pikartská 7, 716 07 Ostrava Radvanice, tel +420 69 623 27 15, fax +420 69 623 26 72, e-mail: ftzu@ftzu.cz



Physical Technical Testing Institute
Ostrava-Radvanice



**Supplement No. 1 to
EC-Type Examination Certificate**

**Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 02 ATEX 0008X

(4) Equipment or protective system: **Limit level gauge - SILOMAX**

(5) Manufacturer: **DRAHOMIL KLIMEŠ**

(6) Address: **Hodonínská 352, 696 21 Prušánky, Czech Republic**

(7) This supplement of certificate is valid for: - modification of the certified product
- prolongation of certificate validity

(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 fulfil by satisfying of following standards:

EN 61241-0:2006; EN 61241-1:2004

(11) Marking of equipment designed according to this supplement shall contain symbols:

Ex II 1/2D Ex tD A IP65 T 66°C

(12) This type examination certificate is valid till: **31. 03. 2013**

Responsible person:

Mr. Jaroslav Šindler
Head of certification body



Date of issue: 18. 03. 2008

Number of pages: 3

Page: 1/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0008X**

(15) Description of Equipment or Protective System:

The limit level gauge, type SILOMAX is designed for measuring of limit level of bulk materials in silos, eventually in transport pipelines with dust explosive atmospheres.

The level gauge consists of steel housing made of stainless steel grade 17 241; inside of the housing is an electric motor, that rotate shaft with measuring blade.

The electric motor is electronically controlled and so it is possibly to adjust torque for measurement of different bulk materials.

The level gauge is installed into threaded hole in container with thread G 5/4" and sleeve length max. 23 mm.

Level gauge variants:

- | | |
|----------------|--|
| SILOMAX-P | - the basic design for vertical installation into container cover |
| SILOMAX-PT | - design with extended shaft for vertical installation into container roof |
| SILOMAX-PT LAN | - design with flexible rope extension to the measuring blade |

Technical parameters:

Supply: 230 V / 50 Hz; or 24 V DC; 48 V DC; 115 V DC

Power: 10 W / 230 V AC; 6 W / 24 V DC

Switching relay: 250 V AC/1A

Measuring medium temperature: max. +80°C

Ambient temperature: -20°C ... + 55°C

Degree of protection: IP 65

Service duty: continuous duty

Torque: max. 0,3 Nm

Responsible person:


Mr. Jaroslav Šindler

Head of certification body



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Page: 2/3

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(13)

Schedule

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**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0008X**

(16) Report No. : FTZÚ No. 02/0008 – supplement No.1

(17) Special conditions for safe use: -

17.1 Ambient temperature T_A -20°C ... + 55°C

(18) Essential Health and Safety Requirements:

Essential health and safety requirements are covered by standard mentioned in (10) of this certificate and instruction for use.

(19) LIST OF DOCUMENTATION

➤	Sale and technical documentation, document No. SMX 07 2007	01.09.2007
	Block diagram of electrical circuitry	- drawing No. SMX 07 2007
	Assembly SILOMAX	- drawing No. SMX 07 2007
	Measuring blade	- drawing No. SMX 07 2007-1
	Measuring blade with rope extension	- drawing No. SMX 07 2007-2
	Measuring blade with adjustable extension	- drawing No. SMX 07 2007-3

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Page: 3/3

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