



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 0009X**

- (4) Equipment or protective system: **Continuous level meter type SILOTER-A, -B, -M**  
(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°

**02/0009 dated 20 March 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 54/65 T=65°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



(1) **Supplement No. 1 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 02 ATEX 0009X**

(4) Equipment or protective system: **Continuous level meter, type SOLITER-C**

(5) Manufacturer : **DRAHOMIL KLIMEŠ**

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

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

(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 61241-0:2006 EN 61241-1:2004**

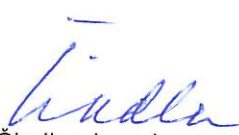
(11) Marking of equipment shall contain symbols:

**Ex II 1/2D Ex tD A IP65 T85°C**

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

Responsible person:

Date of issue: 19.03. 2008

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



  
Number of pages: 3  
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Physical Technical Testing Institute  
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(13)

Schedule

(14)

Supplement No. 1 to  
EC-Type Examination Certificate N° FTZÚ 02 ATEX 0009X

(15) Description of Equipment or Protective System:

The continuous level meter, type SOLITER, is designed for continuous level measurement of bulky materials in silos and containers of any high with potentially explosive atmospheres of combustible dust.

The meter consists of cylindrical housing, made of stainless steel class 17 241, that is separated by hermetic partition into two compartments. In one part is measuring rope with probe and second contains electrical drive with control and measuring electronics. The part of the measuring drum is a steel rope with probe and permanent toroidal magnets for switching the magnetic end position switch.

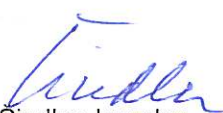
Types of level meter:

SILOTER-C - basic design of meter for measurement up to do 50 m

Technical parameters:

Power supply:	230 V/ 50 Hz;
Input power:	max. 70 W
Motor torque:	4 Nm
Temperature of measured medium:	max. +80°C
Degree of protection:	IP 65
Measuring high:	max. 50 m
Max. pressure:	1 bar
Measuring rate:	2 m/s
Ambient temperature:	-20°C ... + 65°C

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Date of issue: 19.03. 2008

Number of pages: 3  
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(13)

Schedule

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Supplement No. 1 to  
EC-Type Examination Certificate N° FTZÚ 01 ATEX 0009X

(16) Report No. : FTZÚ 02/0009 – supplement No. 1

(17) Special conditions for safe use: X

17.1 Ambient temperature  $T_A$  -20°C ... + 65°C

(18) Essential Health and Safety Requirements:

18.1 The essential safety requirements are covered by standards mentioned in (10) of this certificate supplement.

(19) List of documentation:

➤ Trade and technical documentation	- document No. STR 072007	01.09.2007
➤ Circuitry diagram	- drawing No. STR 07 2007	--
➤ Assembly SILOTER	- drawing No. STR 07 2007	05.07.2007

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