



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 03 ATEX 0257

(4) Equipment or protective system: Instrument housing, type S3-1

(5) Manufacturer: **HACO Mess – und Regeltechnik GmbH**

(6) Address: **Am Heerbach 10, D-638 57 Waldaschaff, SRN**

(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°

03/0257 dated 27 November 2003

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

EN 1127-1:1998

EN 13463-1:2002

(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, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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



II 2G IIC T3

This EC-Type Examination Certificate is valid till:

30 of November 2008

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 27 of November 2003

Number of pages: 2
Page: 1/2

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



**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 03 ATEX 0257**

(15) **Description of Equipment or Protective System:**

The instrument housing type S3-1 is designed for installation of valve assembly with electric heating and pressure or differential pressure transducer (e.g. type 3051.....J) with type of protection EEx ia IIC T4, T5. The plastic housing consists of own two-piece plastic body (dimension 400 x 400 x 500 mm) with inspection window 310 x 230 mm (material glass). Inside of housing is installed valve assembly, type SB-2-S with electric heating HACO, type SH-90 with type of protection EEx d IIC T3, or with valve assembly type SB-3-S FP or SB-5-S FP. Outside of housing is positioned a terminal box ROSE, type 06 081606Ex with type of protection EEx e II T6 and steel housing support (pipe ϕ 62/5).

Technical parameters

Dimension of housing:	400 x 400 x 500 mm
Ambient temperature:	-20°C ... +40°C
Service position:	vertical, clamped to housing support pipe 2"

(16) Report No. : FTZÚ No. 03/0257

(17) Special conditions for safe use: none

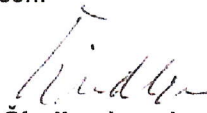
(18) **Essential Health and Safety Requirements:**

18.1 Essential health and safety requirement of Directive 94/9/EC, are covered in standard mentioned in (9) and in Instruction for use and maintenance of instrument housing S3-1.

(19) **List of documentation:**

- Drawings No.: S3-1 - ATEX 2003
S3-1 - equipment
S3-1 - with inspection window
- Technical description of instrument housing S3-1, 1 page – document No. ATEX/S3-1/description - 2003
- Instruction for use and operation of instrument housing S3-1, 1 page – document No. ATEX/S3-1/instruction - 2003

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 27 of November 2003

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Physical Technical Testing Institute
Ostrava-Radvanice



(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 03 ATEX 0257X

(4) Equipment or protective system: **Instrument housing, type S3-1**

(5) Manufacturer: **HACO-Mess-und Regeltechnik GmbH**

(6) Address: **Am Heerbach 10, D-63857 Waldaschaff, Germany**

This supplement of certificate is valid for: - 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 fulfilled by satisfying the following standards:

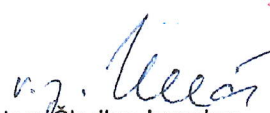
EN 1127-1:2007, EN 13463-1:2001

(11) Marking of equipment shall contain symbols:

Ex II 2G IIC T3

(12) This type examination certificate is valid till: **31. 01. 2014**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: **19.12.2008**

Number of pages: 2

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0257X**

(15) Description of Equipment or Protective System:

This supplement prolonged validity of the certificate issued for the instrument housing type S3-1. The instrument housing type S3-1 is intended for installation of valve assembly with electric heating and for installation pressure or differential pressure transducer of relevant type of explosion protection and temperature class T4, T5. The instrument housing consists of own two-piece plastic body and a inspection window (size 310x230mm) made from glass. The housing body is made from plastic "PURSI" (material polyurethane). Inside of the instrument housing is installed valve assembly, type SB-2-S FP with electric heating HACO, type SH 90 with type of protection Exd IICT3 or with valve assembly type, SB-3-S FP or SB-5-S FP. Outside of enclosure is positioned a terminal box ROSE, type 06081606 with type of protection Exe IIT6.

Technical parameters:

Dimension of enclosure: .400 x 400 x 500 mm
Ambient temperature: - 20 °C ... + 40 °C
Service position: vertical, clamped to support pipe

(16) Report No. : 03/0257-1

(17) Special conditions for safe use: The inspection window of the instrument housing is labeled with warning marking: WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

(18) Essential Health and Safety Requirements: Weren't altered

(19) List of documentation: Wasn't altered

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 19.12.2008

Number of pages: 2

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Physical Technical Testing Institute
Ostrava – Radvanice



**Supplement No. 2 to
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 03 ATEX 0257X

(4) Equipment or protective system: **Instrument housing, type S3-1**

(5) Manufacturer: **HACO-Mess-und Regeltechnik GmbH**

(6) Address: **Am Heerbach 10, D-63857 Waldaschaff, Germany**

(7) This supplement of certificate is valid for: - prolongation of certificate validity

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the 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 other requirements, which manufacturer shall fulfil before products are placed on the market or introduce in service.

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

EN 1127-1: 2011; EN 13463-1:2009

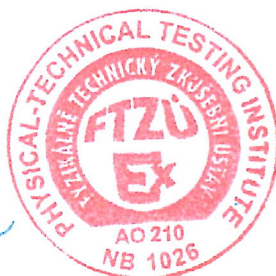
(11) Marking of equipment shall contain symbols:

 **II 2G IIC T3**

(12) This type examination certificate is valid till: **31.01.2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.11.2013

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**Physical Technical Testing Institute
Ostrava – Radvanice**

(13)

Schedule

(14)

**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0257X**

(15) Description of Equipment or Protective System:

This supplement prolongs the validity of certificate of the product according to the current editions of standards. The instrument housing type S3-1 is intended for installation pressure or differential pressure transducer and for installation of valve assembly type SD-2-S FP with electric heating HACO type SH90. Alternatively the valve assembly can be replaced by types SB-3-S FP or SB-5-SFP. Outside of housing is positioned a terminal box ROSE, type Polyester-KE... .

The electrical equipment of the instrument housing is explosion proof.

The construction, materials and electrical accessories of the instrument housing is unchanged.

Technical parameters:

Dimension of instrument housing: 400 x 400 x 500 mm

Ambient temperature: - 20 °C ... + 40 °C

Service position: vertical, clamped to support pipe

(16) Report No.: 03/0257-2

(17) Special conditions for safe use: Remain valid according to supplement no.1 of certificate.

(18) Essential Health and Safety Requirements: Were not altered.

(19) List of Documentation: Was not altered.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.11.2013

Page: 2/2

This supplement to certificate is granted subject to the general conditions of the FTZÚ, s.p.
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Physical-Technical Testing Institute
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No. 3**

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

(3) EU - Type Examination Certificate number:

FTZÚ 03 ATEX 0257X

(4) Product: **Instrument housing, type S3-1**

(5) Manufacturer: **HACO-Mess-und Regeltechnik GmbH**

(6) Address: **Am Heerbach 10, D-63857 Waldaschaff, Germany**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 03 ATEX 0257 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 ISO 80079-36:2016, EN IEC 60079-0:2018, EN 1127-1:2011

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

 **II 2G IIC T3 Gb**

(12) This certificate is valid till: **31.12.2023**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 20.12.2018

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14)

**Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 03 ATEX 0257X**

(15) Description of the variation to the product:

The subject of this supplementary certificate is:

- Evaluation according to mentioned standards.
- Prolongation of certificate validity.

The instrument housing type S3-1 is intended for installation pressure or differential pressure transducer and for installation of valve assembly type SD-2-S FP with electric heating HACO type SH90. Alternatively the valve assembly can be replaced by types SB-3-S FP or SB-5-SFP. Outside of housing is positioned a terminal box ROSE, type Polyester-KE....

The electrical equipment of the instrument housing is explosion proof.

The construction, materials, electrical accessories and range of use of the instrument housing are unchanged.

Basic technical parameters:

Dimension of instrument housing: 400 x 400 x 500 mm

Ambient temperature: -20 °C ... +40 °C

Service position: vertical, clamped to support pipe

(16) Report Number.: 03/0257-3

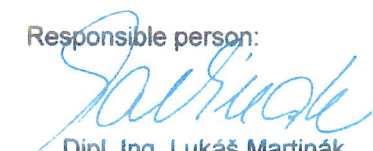
(17) Specific Conditions of Use: remain valid according to supplement no.1 of certificate.

(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: unaltered

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 20.12.2018

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