



- (1) **EC-TYPE EXAMINATION CERTIFICATE**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres – Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 00ATEX2143 X**
- (4) Equipment or protective system:  
**Scalable Pressure Transmitter Series 3051S and Housing Series 300S**
- (5) Manufacturer: **Rosemount Inc.**
- (6) Address: **8200 Market Boulevard, Chanhassen, MN 55317, USA**
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA, notified body number 0344 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 no. 2007178.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
  
**EN 50014 : 1997    EN 50018 : 1994    EN 50284 : 1999**
- (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 tests of the specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of the equipment or protective system. These are not covered by the certificate
- (12) The marking of the equipment or protective system shall include the following:



II 1/2 G    EEx d IIC T5 ... T6

Arnhem, 21 February 2001

by order of the Board of Directors of N.V. KEMA

C.M. Boschloo  
Certification Manager

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## SCHEDULE

### to EC-Type Examination Certificate KEMA 00ATEX2143 X

#### Description

The Scalable Pressure Transmitter Series 3051S incorporates highly accurate capacitance and/or strain gage sensors. The process pressure is applied to the primary isolation diaphragm(s) on the bottom of the transmitter. The 3051S Series includes an inline type with a single diaphragm for measuring gage or absolute pressure, a coplanar type with two diaphragms for measuring differential or gage pressure, or a coplanar type with a single diaphragm for measuring absolute pressure.

The Housing Series 300S is mounted to the 3051S transmitter and is offered as either a single compartment or dual compartment housing. The housing provides field wiring terminals and may be equipped with additional electronics to further process the information from the 3051S transmitter. The Series 300S housings are interchangeable and can be replaced in the field.

The relation between the ambient temperature and the temperature class is given in the table below:

Temperature class	Ambient temperature range
T6	-50 °C to +65 °C
T5	-50 °C to +80 °C

#### Electrical data

Power supply and output circuit                      4 – 20 mA with digital HART, 10,5 to 42,4 V dc, or  
 17,5 mA FIELDBUS, supply voltage 9 to 32 V dc

#### Installation instructions

- Unused apertures shall be closed with suitable blanking elements
- Suitable heat-resisting cables shall be used when the ambient temperature at the cable or conduit entries exceeds 60 °C
- The cable and conduit entry devices shall be of a certified flameproof type EEx d, suitable for the conditions of use and correctly installed
- With the use of conduit entries a sealing device shall be provided immediately on the entrance of the enclosure.

#### Routine tests

Each 3051S pressure transmitter shall be subjected to a routine test according clause 16 of EN 50018, using a test pressure of at least 16 bar.

(16) **Report**

KEMA No. 2007178.

(17) **Special conditions for safe use**

This device contains a thin wall diaphragm. Installation, maintenance and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.

The 3051S pressure transmitter must include a Series 300S housing integrally mounted to a Series 3051S Sensor module as per Rosemount drawing 03151-1023.

## SCHEDULE

to EC-Type Examination Certificate KEMA 00ATEX2143 X

### Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by the standards listed at (9)	
Clause	Subject
1.0.5	Marking
1.0.6 a) and b)	Instructions

These Essential Health and Safety Requirements are examined and positively judged. The results are laid down in the report listed at (16)

(19) **Test documentation**

- |    |   | <u>dated</u> |
|----|---|--------------|
| 1. | Product compliance report no. C1464-01 (11 pages) | 05.10.2000   |
| 2. | Drawing No. 03151-1021, rev. AA (6 sheets)        | 20.09.2000   |
|    | 03151-1022, rev. AA (4 sheets)                    | 22.08.2000   |
|    | 03151-1023, rev. AA (3 sheets)                    | 11.09.2000   |
| 3. | Samples   |              |

# AMENDMENT 1

to EC-Type Examination Certificate KEMA 00ATEX2143 X

Manufacturer: Rosemount Inc.

Address: 8200 Market Boulevard, Chanhassen, MN 55317, USA

## Description

The Housing Series 300S may also be provided as a stand-alone device for mounting an LCD meter remote from the associated Scalable Pressure Transmitter Series 3051S .

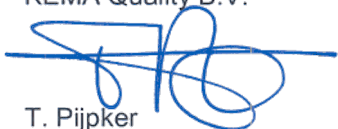
Furthermore the mechanical construction of the Scalable Pressure Transmitter Series 3051S has been changed in accordance with the documentation below.

All other data remain unchanged.

## Test documentation

	<u>dated</u>
1 Product Compliance Report C1464, Amendment 1	28.12.2001
2. Drawing no. 03151-1021, Rev. AC	20.11.2001
03151-1022, Rev. AB	25.09.2001

Arnhem, 8 March 2002  
KEMA Quality B.V.



T. Pijpker  
Certification Manager

## AMENDMENT 2

to EC-Type Examination Certificate KEMA 00ATEX2143 X

Manufacturer: Rosemount Inc.

Address: 8200 Market Boulevard, Chanhassen, MN 55317, USA

### Description

The Pressure Transmitter Series 3051S is extended with Model 3051SFA, which includes an extra connection and a RTD.

All data remain unchanged.

### Test documentation

dated

1. Drawing No. SU-9905, rev. AB (7 sheets)      22.04.2003

Arnhem, 23 June 2003  
KEMA Quality B.V.

  
C.G. van Es  
Certification Manager

## AMENDMENT 3

to EC-Type Examination Certificate KEMA 00ATEX2143 X

Manufacturer: **Rosemount Inc.**

Address: **8200 Market Boulevard, Chanhassen, MN 55317, USA**

### Description

The Scalable Pressure Transmitter Series 3051S with Housing Series 300S may also be manufactured with a dual compartment housing.

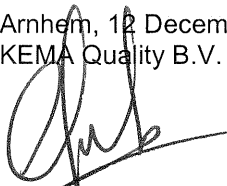
Furthermore, the range of pressure transmitters is extended with Model 3051SFC, which has a different process connection.

All other data remain unchanged.

### Test documentation

	<u>dated</u>
1. Product Compliance Report No. C1464-03	09.07.2003
2. Drawing no. 03151-1021, Rev. AG (7 pages)	21.08.2003
03151-1022, Rev. AE (6 pages)	21.08.2003
03151-1023, Rev. AB (3 pages)	07.04.2003
SU-9973, Rev. AC	26.08.2003

Arnhem, 12 December 2003  
KEMA Quality B.V.



C.G. van Es  
Certification Manager

## AMENDMENT 4

to EC-Type Examination Certificate KEMA 00ATEX2143 X

Manufacturer: **Rosemount Inc.**

Address: **8200 Market Boulevard, Chanhassen, MN 55317, USA**

### Description

The range of Scalable Pressure Transmitters Series 3051S is extended with Model 3051SFP, which has a different process connection.

All other data remain unchanged.

### Test documentation

Drawing no. SU 10071, rev. AB (4 sheets)

dated

06.05.2004

Arnhem, 14 May 2004  
KEMA Quality B.V.



T. Pijker  
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