



(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 03ATEX1225 X**

(4) Equipment or protective system: **ST3000 Smart Pressure Transmitter Series 900**

(5) Manufacturer: **Yamatake Corporation**

(6) Address: **4-1-1 Omagari, Samukawa-machi, Koza-gun, Kanagawa-ken, 253-0113, Japan**

(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 Quality B.V., 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. 2025040.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014 : 1997 EN 50020 : 2002 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 according 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 the following:

 **II 1 G EEx Ia IIC T4**

Arnhem, 26 June 2003  
KEMA Quality B.V.

C.G. van Es  
Certification Manager

**Yamatake Corporation**  
**Shonan Factory**

\* This Certificate may only be reproduced in its entirety and without any change



## SCHEDULE

- (13)
- (14) **to EC-Type Examination Certificate KEMA 03ATEX1225 X**

(15) **Description**

The ST3000 Smart Pressure Transmitter Series 900 is a two wire transmitter that converts a pressure signal into a 4-20 mA or digital signal.  
The Smart Pressure Transmitter can be provided with an optional integral indicator.

Ambient temperature range -20 °C ... +60 °C.

**Electrical data**

Signal/supply circuit ..... in type of explosion protection intrinsic safety EEx ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i$	=	30	V
$I_i$	=	100	mA
$P_i$	=	1	W
$C_i$	=	3	nF
$L_i$	=	0,5	mH

From the safety point of view the circuit shall be considered to be connected to earth.

(16) **Report**

KEMA No. 2025040.

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

Because the enclosure of the Smart Pressure Transmitter is made of aluminium, if it is mounted in an area where the use of category 1 G apparatus is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

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

Covered by the standards listed at (9).

(19) **Test documentation**

Drawing No.	<u>dated</u>	Drawing No.	<u>dated</u>
80391656, Rev.01	10.04.2003	80391660, Rev.00	10.06.2002
80391657, Rev.00	10.06.2002	80391665, Rev.00	10.06.2002
80391662, Rev.02	20.06.2003	80391666, Rev.01	09.06.2003
80391663, Rev.03	09.06.2003	80391667, Rev.01	09.06.2003
80391664, Rev.04	20.06.2003	80391668, Rev.00	10.06.2002
80391659, Rev.00	10.06.2002	80391669, Rev.00	10.06.2002
80391661, Rev.01	12.03.2003	80391658, Rev.03	02.06.2003

# AMENDMENT 1

to EC-Type Examination Certificate KEMA 03ATEX1225 X

Manufacturer: Yamatake Corporation, Shonan Factory

Address: 4-1-1 Omagari, Samukawa-machi, Koza-gun, Kanagawa-ken, 253-0113, Japan

## Description

The ST3000 Smart Pressure Transmitter Series 900 may also be constructed in accordance with the documentation listed below.

This amendment concerns changes of the electronics.

All other data remain unchanged.

## Test documentation

		<u>dated</u>
Drawing No.	80391662 Rev.3	22.07.2003
	80391664 Rev.5	22.07.2003
	80391667 Rev.2	22.07.2003

Arnhem, 10 November 2003  
KEMA Quality B.V.

  
C.G. van Es  
Certification Manager

[2037766]