

## (1) EC-TYPE EXAMINATION CERTIFICATE

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 10ATEX0027** Issue Number: **2**

(4) Equipment: **Temperature Transmitters, Types YTA70-E/KS2, YTA70-E/DS2, YTA70-E/Z and YTA70-E/SS2**

(5) Manufacturer: **Yokogawa Electric Corporation**

(6) Address: **2-9-32, Nakacho, Musashino-shi, Tokyo, 180-8750 Japan**

(7) This equipment 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 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 test report number 213586400

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

**EN 60079-0 : 2006**  
**EN 61241-0 : 2006**

**EN 60079-11 : 2007**  
**EN 61241-11 : 2006**

**EN 60079-26 : 2007**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.


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



**II 1 G Ex ia IIC T4 or T6**  
**II 1 D Ex iaD**

This certificate is issued on July 2, 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

  
C.G. van Es  
Certification Manager



Page 1/2

© Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

**IKE041-C03 P./**

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 10ATEX0027**

Issue No. 2

(15) **Description**

Temperature Transmitters, Type YTA70-E/KS2, Type YTA70-E/DS2, Type YTA70-E/Z and Type YTA70-E/SS2, suitable for mounting in an enclosure form B according to DIN 43729, is used to convert the temperature measurement signal of a temperature sensor or a mV signal into a 4 ... 20 mA current signal with digital communication (HART).

The relation between ambient temperature range and temperature class is shown in the table below.

Ambient temperature range	Temperature class
-40 °C ... +85 °C	T4
-40 °C ... +60 °C	T6

**Electrical data**

Supply and output circuit (terminals 1 and 2):

in type of protection intrinsic safety Ex ia IIC or Ex iaD, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 30 \text{ V}$ ;  $I_i = 120 \text{ mA}$ ;  $P_i = 0,84 \text{ W}$ ;  $C_i = 1 \text{ nF}$ ;  $L_i = 10 \text{ }\mu\text{H}$

Sensor circuit (terminals 3, 4 and 6):

in type of protection intrinsic safety Ex ia IIC or Ex iaD, with the following maximum values:

$U_o = 9,6 \text{ V}$ ;  $I_o = 28 \text{ mA}$ ;  $P_o = 67 \text{ mW}$ ;  $C_o = 3,5 \text{ }\mu\text{F}$ ;  $L_o = 35 \text{ mH}$

**Installation instructions**

The instructions, provided by the manufacturer, shall be followed in detail to assure safe operation of the equipment.

(16) **Test Report**

KEMA No. 213586400

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213586400