

# CERTIFICATE

## (1) EC-Type Examination

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

(3) EC-Type Examination Certificate Number: **DEKRA 11ATEX0014 X** Issue Number: **1**

(4) Equipment: **pH sensors Types FU20, FU24, PH20, SC24V and SC25V**

(5) Manufacturer: **Yokogawa Europe B.V. (YPA)**

(6) Address: **Euroweg 2, 3825 HD Amersfoort, The Netherlands**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification 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 213792700.

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

**EN 60079-0 : 2009**

**EN 60079-11 : 2007**

**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 T3...T6 Ga**

This certificate is issued on 8 March 2011 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.

DEKRA Certification B.V.



C.G. van Es  
Certification Manager

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DEKRA Certification B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands  
T +31 26 3 56 20 00 F +31 26 3 52 58 00 [www.dekra-certification.com](http://www.dekra-certification.com) Registered Arnhem 09085396



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0014 X**

Issue No. 1

(15) **Description**

PH sensor series FU20, FU24, PH20, SC24V and SC25V for connection to a certified associated PH/ORP transmitter are used for measurement of pH, redox (ORP) and temperature.

Ambient temperature range: -40 °C to +40 °C for temperature class T6,  
-40 °C to +55 °C for temperature classes T4 and T5,  
-40 °C to +105 °C for temperature class T3.

**Electrical data**

Sensor input circuits (connector or permanently connected cable):  
in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:  
 $U_i = 18 \text{ V}$ ;  $I_i = 170 \text{ mA}$ ;  $P_i = 0,4 \text{ W}$ ;  $C_i = 0 \text{ nF}$  (connector) or  $3,6 \text{ nF}$  (permanently connected cable);  
 $L_i = 0 \text{ mH}$ ;

or for connection to the certified intrinsically safe Yokogawa PH/ORP Transmitter Model FLXA21 series or Model PH202S series.

(16) **Test Report**

No. 213792700.

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

For ambient temperature see (15).

Electrostatic charges on the enclosure and cable shall be avoided.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213792700.