

(1) **TYPE EXAMINATION CERTIFICATE**

(2) Equipment intended for use in potentially explosive atmospheres – Directive 94/9/EC

(3) Type Examination Certificate Number: **KEMA 05ATEX1127**

(4) Equipment: **Liquid Analyser Model EXA DO202S-N,
Model EXA DO202S-B and Model EXA DO202S-D**

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

(6) Address: **Databankweg 20, 3821 AL 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) KEMA Quality B.V. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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. 2082132-02.


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

EN 60079-15 : 2003

(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 Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of the equipment.

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

 **II 3 G EEx nA [L] IIC T4 ... T6**

Arnhem, 26 October 2005
KEMA Quality B.V.



C. G. van Es
Certification Manager

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(13)

SCHEDULE

(14)

to Type Examination Certificate KEMA 05ATEX1127

(15) **Description**

Liquid Analyser Model EXA DO202S-N converts a measurement signal into a two wire 4 - 20 mA current signal, with optionally a digital communication signal (HART protocol) superimposed on the current signal.

Liquid Analyser Model EXA DO202S-B and Model EXA DO202S-D convert the measurement signal into a digital asynchronous signal.

Ambient temperature range: -10 °C ... +55 °C for temperature class T4;
-10 °C ... +40 °C for temperature class T6.

Electrical data

Liquid Analyser Model DO202S-N

Supply and output circuit Supply voltage: max. 31,5 Vdc
(terminals 'Supply + and -') Output current: 4 ... 20 mA

Liquid Analyser Model DO202S-B and Model DO202S-D

Supply and output circuit Supply voltage: max. 32 Vdc
(terminals 'Supply + and -') Output current: 4 ... 20 mA

Liquid Analyser Model DO202S-

Sensor input circuits in type of protection energy limitation EEx nL IIC, with
(terminals 11 to 18) the following maximum values:

U_o	=	14,4	V
I_o	=	22	mA
P_o	=	187	mW
L_o	=	170	mH
C_o	=	3,5	μ F

(16) **Report**

KEMA No. 2082132-02.

Special conditions for safe use

None.

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

Covered by the standard listed at (9).

(19) **Test documentation**

As listed in Test Report no. 2082132-02.