

(1) **TYPE EXAMINATION CERTIFICATE**

- (2) Equipment intended for use in potentially explosive atmospheres – Directive 94/9/EC
- (3) Type Examination Certificate Number: **KEMA 01ATEX1192 X**
- (4) Equipment: **Liquid Analyser Model ISC202S-N and Model ISC202S-B, with Sensor Model ISC40S**
- (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. 2015021.

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

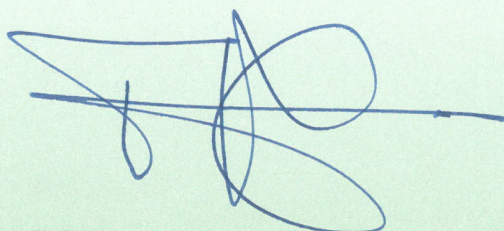
EN 50021 : 1999

- (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 (Analysers)
II 3 G EEx nL IIC T6 (Sensor)

Arnhem, 15 May 2003
 KEMA Quality B.V.



T. Pijpker
 Certification Manager

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SCHEDULE

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(14)

to Type Examination Certificate KEMA 01ATEX1192 X

(15) **Description**

Liquid Analyser Model ISC202S-N with Conductivity Sensor Model ISC40S converts a measurement signal into a two wire 4 - 20 mA current signal, with optionally a digital communication signal.

Liquid Analyser Model ISC202S-B with Conductivity Sensor Model ISC40S converts the measurement signal into a digital asynchronous signal.

Ambient temperature range: -30 °C ... +40 °C for temperature class T6
 -30 °C ... +55 °C for temperature class T4.

Electrical data

Liquid Analyser Model ISC202S-

Supply and output circuit Supply voltage: max. 31,5 Vdc
 (terminals 'Supply + and -')

Output current: 4...20 mA

Sensor input circuits..... in type of explosion protection energy limitation EEx nL IIC,
 (terminals 11 to 17) with the following maximum values:

U_o	=	14,4	V
I_o	=	88	mA
P_o	=	317	mW
C_o	=	3,5	μ F
L_o	=	10	mH

Sensor Model ISC40S

Input and output circuits in type of explosion protection energy limitation EEx nL IIC,
 only for connection to the energy limited Liquid Analyser
 Model ISC202S-, with the following maximum values:

C_i	=	0	nF
L_i	=	0	μ H

(16) **Report**

KEMA No. 2015021.

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

For electrical data see (15).

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

Covered by the standards listed at (9).

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SCHEDULE

(14)

to Type Examination Certificate KEMA 01ATEX1192 X

(19) **Test documentation**

1. EC-Type Examination Certificate KEMA No. 00ATEX1067 X		<u>dated</u>
2. Description		
P.2, P.4, P.5, P.20, P.21, P.23 to P.29, P.31 to P.33, P.35 to P.38, Rev. 1.1		01.06.2002
P.19, P.34, Rev. 1.2		01.02.2003
P.1, P.7 to P.13, P.15, P.17, P.18, Rev. 1.2		01.05.2003
P3, P.6, P.14, P.16, P.22, P.30, Rev. 1.3		01.05.2003
3. Drawing No. FF1-ISC202S-00, P.1, Rev. 1.3		01.05.2003
FF1-ISC202S-00, P.4, Rev. 1.2		01.02.2003
FD1-ISC202S-01, Rev. 1.2 (4 pages)		01.05.2003
FD1-ISC202S-02, Rev. 1.3 (4 pages)		01.02.2003
FD1-ISC202S-03, Rev. 1.1 (4 pages))	
FF1-ISC202S-01, Rev. 1.1 (2 pages))	01.06.2002
FF1-ISC202S-02, Rev. 1.1)	
FF1-ISC202S-03, Rev. 1.2)	
FF1-ISC202S-04, Rev. 1.2 (2 pages))	01.02.2003
FF1-ISC202S-05, Rev. 1.2)	
FF1-ISC202S-06, Rev. 1.2)	
FF1-ISC202S-07, Rev. 1.2 (3 pages)		01.05.2003
FF1-ISC202S-08, Rev. 1.2 (6 pages)		17.10.2002
FF1-ISC202S-09, Rev. 1.1 (3 pages)		01.06.2002
FF1-ISC202S-10, Rev. 1.1		01.06.2002