IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx KEM 06.0006** Issue No.: **0**

Status: **Current**

Date of Issue: **2006-03-08** Page **1** of **3**

Applicant: **Yokogawa Electric Corporation**
2-9-32 Nako-cho
Musashino-shiTokyo
180-8750
Japan

Electrical Apparatus: **Oxygen Detector Type ZR22S and Oxygen Analyzer Type ZR202S**
Optional accessory: **Auto Calibration Unit, Blanking Elements**

Type of Protection: **Ex d and Ex tD**

Marking: **Ex d IIB + H2 T2**
Ex tD A21 IP66 T300 °C

Approved for issue on behalf of the IECEx Certification Body: T. Pijpker

Position: Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

KEMA Quality B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands

DIE004-C01 P. 1/3

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Manufacturer: **Yokogawa Electric Corporation**
2-9-32 Naka-cho
Musashino-shi
Tokyo 180-8750
Japan

Manufacturing location(s):

Yokogawa Electric Corporation
Yokogawa Electronics
Manufacturing Corporation
Kofu factory
155 Takamuro-cho
Kofu-shi
Yamanashi-ken
400-8558
Japan

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture'rs quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NL/KEM/ExTR06.0002/00

Quality Assessment Report:

NL/KEM/QAR06.0015/00

DIE004-C01 P.2

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

The Oxygen Detector Type ZR22S and the Oxygen Analyzer Type ZR202S are used for continuous oxygen measurement. The Oxygen Detector Type ZR22S consists of a probe and a terminal compartment for connection to a separate converter. The Oxygen Analyzer Type ZR202S consists of a probe and an enclosure with the converter electronics. Optionally, the Oxygen Analyzer Type ZR202S can be provided with an Auto Calibration Unit and Blanking Elements.

Ambient temperature range
ZR22S: -20 °C to +60 °C
ZR202S: -20 °C to +55 °C

The enclosure provides a degree of protection of at least IP 66 according to IEC 60529.

Electrical data
ZR22S: Only for connection to converter type ZR402G or AV550G according to the user manual.
ZR202S: supply 240 Vac 300 W, output 4 - 20 mA dc

CONDITIONS OF CERTIFICATION: NO

Annexe: