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 BKI 11.0001X issue No.:1	Certificate history: Issue No. 1 (2012-2-14) Issue No. 0 (2011-1-18)
Status:	Current	
Date of Issue:	2012-02-14	Page 1 of 4

Applicant:
PT. KOROSI SPECINDO
Jl. Pangeran Jayakarta No. 76
Jakarta 10730
Indonesia

Electrical Apparatus: **Handheld corrosion logger / up-downloader model KSHHU; Corrosion data logger ar transmitter model DCI**
Optional accessory: See details in Addendum IECEx BKI 11.0001 X

Type of Protection: **General requirements, Intrinsically safe**

Marking: Ex ia IIC T4
-20°C ≤ Tambient ≤ +60 °C

Approved for issue on behalf of the IECEx Certification Body: János Fejes

Position: Managing director

Signature: (for printed version)

Date: 2012.02.14.

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:

Testing Station for Explosion Proof Equipment
H 1037 BUDAPEST
MIKOVINY S.u. 2-4
Hungary

Robbanásbiztos Berendezések ® BKI • Vizsgáló Állomása • Ex

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Manufacturer: **PT. KOROSI SPECINDO**
Jl. Pangeran Jayakarta No.76
Jakarta 10730
INDONESIA
Indonesia

Manufacturing location(s):

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 manufacturer's quality system, relating to the Ex produ 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 Docume as amended.

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

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than thos 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:
HU/BKI/ExTR10.0001/00 HU/BKI/ExTR10.0001/01

Quality Assessment Report:

HU/BKI/QAR10.0001/01 HU/BKI/QAR10.0001/02

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Schedule

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

Fixed corrosion data logger (DCI – Data Collection Instrument) – Logger version, type DCI-Dx
Data Logger is a fixed instrument for field mounting to record corrosion activity in the technological system. It is powered by intrinsically safe battery pack. Passive measuring probes with the output electrical or polarization resistance. It is employs the principle of electrical resistance to determine the average corrosion rate of a metal specimen immersed in an experimental or process stream.

See details in Addendum IECEx BKI 11.0001X.

CONDITIONS OF CERTIFICATION: YES as shown below:

- Do not replace the battery pack of the corrosion data logger DCI in a potentially explosive atmosphere. - Do not change the battery of the portable data logger model KSHHU in a potentially explosive atmosphere. - The enclosure of the corrosion data logger and transmitter model DCI must be marked with an electrostatic charge warning:„WARNING – POTENTIAL ELECTROSTATC CHARGING HAZARD – SEE INSTRUCTIONS - The cleaning of the enclosure of the DCI unit must be done only with damped clothes because of the danger of the electrostatic charging.

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Date of Issue: 2012-02-14 Issue No.: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Corrosion transmitter type DCI-TX-d

The corrosion transmitter certified by IECEx BKI 11.0001X as intrinsically safe equipment (Ex ia IIC T4) . This equipment is variant of the certified corrosion transmitter: the intrinsically safe measuring circuit is built-in into certified **flameproof enclosure** (certification : IECEx SIR 08.0126U Issue 0 and Issue 1) . The intrinsically safe circuit is connected to certified galvanic isolator resp. certified zener-barrier.

Marking : Ex d ia IIC T4 Gb

$-40°C \leq T_{ambient} \leq +85\ °C$

See details in Addendum to 1st amendment of IECEx BKI 11.0001 X.

Annexe: Addendum to 1st amendment of IECEx BKI 11.0001 X.pdf, Addendum to _IECEx BKI 11.0001 X.pdf

ADDENDUM TO AMENDMENT No. 1 TO IECEx CERTIFICATE OF CONFORMITY
IECEx BKI 11.0001 X

1 Description :

The corrosion transmitter certified by IECEx BKI 11.0001X as intrinsically safe equipment (Ex ia IIC T4) .
This equipment is variant of the certified corrosion transmitter: the intrinsically safe measuring circuit is built-in into certified flameproof enclosure (certification : IECEx SIR 08.0126U Issue 0 and Issue 1) .
The intrinsically safe circuit is connected to certified galvanic isolator resp. certified zener-barrier.

Marking : Ex d ia IIC T4 Gb

2 Electrical ratings :

- power supply : 10 ... 32 V DC (via power barrier at safe area)
- output : 4-20 mA (HART optional)
- current consumption : typically 60 mA (at 24 V DC)

3 Ambient temperature range : $-40°C \leq T_{ambient} \leq +85°C$

4 Ingress protection : IP 68 according to IEC 60529
(flameproof enclosure certified by IECEx SIR 08.0126U Issue 0 & Issue 1)

Special conditions for safe use

The corrosion transmitter must be operated only with certified intrinsically safe circuits according to the technical description.

Drawings

MANUFACTURER'S DOCUMENTS			
Drawing / document number	Revision	Drawing / document description	Date
DCI TX-d Corrosion Transmitter		Technical description with technical data and application figures	
0605200-10	1	Electrical circuit block-diagram	09.12.2011
0908201-11	2	Nameplate	17.01.2012
DCI-TX-d		Manufacturer's Declaration of Conformity	18.01.2012
IECEx SIR 08.0126U	Issue 0	IECEx Certificate of Conformity	31.07.2009
IECEx SIR 08.0126U	Issue 1	IECEx Certificate of Conformity	16.09.2009
IECEx BKI 11.0001X	Issue 0	IECEx Certificate of Conformity	18.01.2011
KS-WI-R&D-DCITX-A1	rev. 0.1	Routine/performance test and test report	24.04.2011