



Certificate of Conformity

AWARDED TO APPLICANT

SENKO CO, LTD

73, OESAMMI-RO, 15 BEON-GIL, OSAN –SI
GYEONGGI-DO, 18111, – **SOUTH KOREA**

MANUFACTURER: SENKO CO, LTD

73, OESAMMI-RO, 15 BEON-GIL, OSAN –SI
GYEONGGI-DO, 18111, – **SOUTH KOREA**

Bureau Veritas Certification certifies that the Product in the scope of supply specified below has been evaluated and found to comply with the requirements of the reference documents.

Documents of Reference

ORDINANCE N° 179 FROM INMETRO, ISSUED IN MAY 18TH 2010,
ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2016 and
ABNT NBR IEC 60529:2017.

CERTIFICATE ISSUED BASED ON THE MANUFACTURER EVALUATION OF QUALITY
MANAGEMENT SYSTEM AND PRODUCT TESTS MODEL

Scope of Supply

FIXED GAS DETECTOR
MODEL: SI-100 e SI-100C
MARKING: Ex db IIC T5 Gb IP65
-20 °C ≤ Ta ≤ +55 °C

Initial date of this Certificate: **DECEMBER 09TH 2019.**

Certificate valid until: **DECEMBER 08TH 2022.**

This Certificate of Conformity was issued according to the certification model 5 and is valid only accompanied by pages 1 to 04. The validity of this Certificate is linked to carrying out assessments maintenance and treatment of possible non-conformity in accordance with the Bureau Veritas Certification guidelines and in the specific Inmetro Ordinances (RAC).

To check the updated condition of regularity of this Certificate must be obtained from the product database and Certificate Services on Inmetro site.

Product Certification Contract: **20180164**

Certificate since: **DECEMBER 09TH 2016.**

INMETRO Certificate Number: **BVC16.5953**

Wagner Valentino

Coordenador Técnico de Certificação de Produto



**BUREAU
VERITAS**

1912091625001



OCF 0018



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SPECIFICATION:

Fixed Gas Detector, model SI-100 and SI-100C "Ex d" flameproof manufactured in aluminum, installed in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas.

It also has an LCD display that shows not only the gas concentration but also a result diagnosis and can be connected to the controller with an analog communication standard with 4-20 mA output or RS-485 digital communication.

CODIFICATION:

SI-100: Model with LCD Display

SI-100C: Model without LCD Display

ELECTRICAL CHARACTERISTICS:

Nominal Voltage: 9 ~ 34 Vcc

TECHNICAL DOCUMENTATION:

- Certificate of Conformity n° IECEx KTL 14.0014 de 2014/09/05;
- Test Report IECEx n° EXTR 14.0013-00 de 2014/09/05;
- Analysis Report (RA) n° 003/2016 de 2016/09/28;
- Analysis Report (RA) n° 001/2018 de 2018/11/13;
- Factory Inspection performed in 2018/11/09;
- Manual in Portuguese.





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DRAWING	DESCRIPTION	REVISION	DATE
SENKO0705-001-SK1000	Top Case_Ass'y	0	2013/10/16
SENKO0705-001-SK3000	Detector_Ass'y	0	2013/10/16
SENKO0705-001-SK4000	Top & Bottom_Ass'y	0	2013/10/16
SENKO0705-001-SK0001	Glass_Guide	0	2013/10/16
SENKO0705-001-SK0002	Top Case	0	2013/10/16
SENKO0705-001-SK0003	Bottom Case	0	2013/10/16
SENKO0705-001-SK0004	Glass	0	2013/10/16
SENKO0705-001-SK0005	Braket_PCB_Guige	0	2013/10/16
SENKO0705-001-SK0006	Sensor Guide	0	2013/10/16
SENKO0705-001-SK0007	Sensor_PCB_Guide	0	2013/10/16
SENKO0705-001-SK0009	Sensor_PCB_Guide	0	2013/10/16
SENKO0705-001-SK0010	Sensor_Holder_Top	0	2013/10/16
SENKO0705-001-SK0019	Sensor_O-Ring (P20)	0	2013/10/16
SENKO0705-001-SK0023	Sintered Stainless Steel Filter	0	2013/10/16
SENKO0705-001-SK0012	Window_Pad	0	2013/10/16
SENKO0705-001-SK0013	Case_O-Ring (G-90)	0	2013/10/16
SENKO0705-001-SK0020	Label (Top)	0	2013/10/16
SENKO0705-001-SK0021	Label (Bottom)	0	2013/10/16
SENKO0705-001-SK0024	Earth Ststem	0	2013/10/16
SENKO1304-001-SK0004	Label (Top)	0	24/05/2013
SENKO1304-001-SK0013	Earth Ststem	0	2013/10/16

OBSERVATIONS:

1. This Certificate is valid only for products with the same model and type as the tested prototype. Any modification in the project, as well as the use of components apart from those defined by the technical documentation, without previous authorization from Bureau Veritas Certification, will invalid this Certificate.





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- The Fixed Gas Detector, on their outer surface and in a visible place, the Conformity Mark and the technical characteristics thereof, according to the specifications of the Standard ABNT NBR IEC 60079-0 / ABNT NBR IEC 60079-1 / ABNT NBR IEC 60529 and Conformity Assessment Requirements, attached to INMETRO Ordinance 179, published on May 18, 2010. This marking must be legible and durable, possible chemical corrosion.
- The Fixed Gas Detector must be have, fixed in a visible place and in a durable way the following warning:

**“CAUTION – DO NOT OPEN WHEN AN EXPLOSIVE
ATMOSPHERE MAY BE PRESENT”**
- It is the responsibility of the user to ensure that the products are installed in compliance with the relevant Standards for Electrical Installations in Explosive Atmospheres and the manufacturer's recommendations.
- The activities of installation, inspection, maintenance, repair, overhaul and recovery of equipment are the responsibility of users and must be implemented in accordance with the requirements of current technical standards and the manufacturer's recommendations.
- The Manufacturer shall provide manual of installation and safe use written in Portuguese.

REVISIONS HISTORY	
DATE OF ISSUE	DESCRIPTION
2016/12/09	Initial Issue.
2019/12/09	Revision 1 – Recertification.

