IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx IMQ 18.0009X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2019-10-16) Issue 0 (2018-10-24)
Date of Issue:	2020-12-21		
Applicant:	**Prosense Teknoloji San. Ltd. Sti.** Cumhuriyet Mah, Mermer Sk. No:16 KARTAL - Istanbul 34876 **Türkiye**		
Equipment:	**Gas detector**		
Optional accessory:	P-**(2 or 3)* ; P-**1*PE; P-**1*PEK and P-**3*PES Series		
Type of Protection:	**Ex db**		
Marking:	Ex db IIC T4 Gb; Ex db IIC T5 Gb		

Approved for issue on behalf of the IECEx Certification Body: **Mr. Mauro CASARI**

Position: **IMQ ExCB Manager**

Signature:
(for printed version)

Date:
(for printed version)

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.
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Certificate issued by:

Istituto Italiano del Marchio di Qualità S.p.A
Via Quintiliano 43
20138 Milano
Italy

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Manufacturer: **Prosense Teknoloji San. Ltd. Sti.**
Cumhuriyet Mah, Mermer Sk. No:16
KARTAL - Istanbul 34876
Türkiye

Manufacturing locations:

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 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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with 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:

IT/IMQ/ExTR18.0009/02

Quality Assessment Reports:

GB/EXV/QAR18.0006/00 GB/EXV/QAR18.0006/01 GB/EXV/QAR18.0006/02

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

P-(2 or 3)* ; P-**1*PE; P-**1*PEK and P-**3*PES Series** gas detectors are equipment designed to detect toxic compounds in industrial environments and classified areas.

They are composed by:

- a gas sensor, contained in a metallic flameproof enclosure and protected by a sinter metal element,
- a metallic flameproof junction box, containing terminals for electric connections and electronic circuits for amplification / conversion / transmission of signals.

The metallic flameproof junction box has up to three threaded openings for cable entry, and one threaded opening on bottom side where the gas sensor metallic flameproof enclosure is fastened.

Installation and maintenance of gas detectors shall be performed according to IEC 60079-14 and IEC 60079-17, and strictly in compliance with details listed in manufacturer's use and safety instructions.

Coding system and complete details in Annex.

More details in Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:
P-(2 or 3)* ; P-**1*PE; P-**1*PEK and P-**3*PES** gas detectors must be installed only with sensor head pointing downwards.

Cable glands and thread adapters used for entry into the enclosure, as well as blanking elements, shall be certified as Ex Components according to protection "d", and suitable for the ambient temperature range specified above.

Electrical components/devices installed inside the junction box must not exceed a total power consumption of 2,5 W in order to ensure compliance with the declared maximum temperature rise.

Sinter disc and sensor head cap is considered a mounting component and must be replaced as a single unit.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

New edition 7 of IEC 60079-0, and extension to -40 °C for minimum ambient temperature.

Issue 2:

- New models PEK and PES

- New company address

Annex:

IECEx_IMQ 18.0009X-Annex-Issue 2.pdf