



Physical-Technical Testing Institute
Ostrava – Radvanice

Type Examination Certificate

about verification of performance requirements of detectors and
control units for flammable gases

Type Examination Certificate number:

FTZÚ 19 E 0002

Product: **Gas detector type PQN/PQD**

Manufacturer: **PROSENSE TEKNOLOJİ SAN. LTD.ŞTİ**

Address: **Yukarı Mah. Harman Sokak No:42, Kartal-İstanbul, Turkey**

This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

The Physical-Technical Testing Institute, Certification Body No.3051, accredited by ČIA o.p.s, Prague according to EN ISO/IEC 17065:2012, certifies that this product has been found to comply with requirements of the following standards:

EN 60079-29-1:2016, EN 50271:2018

Manufacturer listed in the certificate is responsible for product conformity assurance in accordance with its specification (documentation) listed in this certificate and for successful performance of all specified routine tests and verification.

This certificate relates only to the verification of electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours in workplace atmospheres. Further requirements can be applied to the manufacturing process and supply of this product. These are not covered by this certificate.

This certificate is valid till: **12.02.2024**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 12.02.2019

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This certificate is valid only for products described in this certificate and doesn't replace any other documents.
This certificate shall not be reproduced except in full without written approval of authorized entity (FTZÚ).

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Schedule

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Description of product:

The product is the Gas Detector type PQN and PQD is used for a detection of flammable gases. It consists of an aluminium enclosure with electronics and a stainless steel gas sensing head with sensing element. The enclosure for type PQD is provided with a windowed cover where are the display, the three magnetic control buttons, two cable glands and one blanking element. The PQN enclosure for type PQN is provided without display, with a full metal cover, with two cable glands and one blanking element. The Gas Detector type PQN and PQD is diffusion, fixed, continuous duty, gas detection equipment with integral catalytic sensor. The gas performance tests have been carried out on the product with conditions and specification mentioned below:

Conditions:

Temperature range: -20 to +60°C
Pressure range: 80 to 120 kPa
Humidity range: 20 to 90 % RH
Gas range and gas: 0 to 100 % LFL CH₄
Nominal voltage range: 12 to 24 V DC

The product shall not be used for application of controlling function of the equipments used in potentially explosive atmospheres according to the paragraph 1.5.5 in the Annex II of the Directive 2014/34/EU.

The evaluation according to the standard EN 50270 is not covered by this certificate.

Specification:

Accessories: Calibration Cap
SW version: v1.1.0 for Main part, v1.1.1 for Display part
Calibration flow: 30 l/h
Mounting: Fixed installation on wall
Interfaces: LCD display (type PQD only), Current loop 4-20mA, Modbus RS485

Test report No.: 19E/0002

List of documentation:

Name:	Revision:	Date:
Installation and User Manual	02	10.2018
Hardware Design Document PRS031	1.2	2018
Hardware Design Document PRS037	1.0	2018
Software Control Report regarding EN50271	00	04.01.2018
Software Requirements Specification	1.3	07.05.2017
System Design Document	1.6	11.02.2019
Label drawing	02	08.02.2019

Responsible person:

V. Z. Jaf

Dipl. Ing. Lukáš Martinák
Head of certification body



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