

## 1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 18ATEX0371X Issue: 2

4 Equipment: PQ Series Gas Detectors

5 Manufacturer: Prosense Teknoloji San Ltd Şti

6 Address: Yukarı Mah.  
Harman Sok No:42,  
34860, Kartal  
İstanbul, Turkey

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN 60079-0: 2018

EN 60079-1: 2014

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:



II 2G

Ex db IIC T6 Gb

I M2

Ex db I Mb

Tamb -40°C to +70°C

On behalf of ExVeritas



Peter Lauritzen  
Managing Director

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The status of this certificate can be verified at [www.exveritas.com](http://www.exveritas.com)  
For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).

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## Schedule

### 13 Description of Equipment or Protective System

The PQ Series Gas Detectors are constructed from a threaded aluminium or 316L stainless steel Junction Box that can be fitted with either a solid (PQN) or glassed windowed (PQD) cover. There are four optional entries for the fitment of power and data cables and a gas sensing head. Thread forms can be chosen between ½", ¾" NPT and M20 for the cable entries and ¾" NPT for the gas sensing head.

The PQ Gas Detector is intended to detect the presence of flammable and toxic gases in air or oxygen. They are powered by 12-24 Vdc providing a 4-20 mA, RS485 or dry contacts with optional relay board signal proportional to the respective gas concentration. The Junction Boxes house the electronics assemblies, a display and various status indicators viewed through the glass window and optional relay board. Complete codes and characteristics of detectors are reported in the manual. The identification code is reported on the label fixed on the sensor and on the enclosure.

Rating: 12 to 24Vdc, 4Watt (max)

#### 13.1 Issue 1

The following changes are incorporated in issue 1 of the certificate:

- Inclusion for Group I, mining with Stainless Steel construction
- Change of low Tamb from -20°C to -40°C
- Correction of typographical error to revision status of drawing PQ TD6 for issue 0, originally detailed as Rev 1.1, now corrected to Rev 1.3.

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3121/A/1	27 <sup>th</sup> Jan 2021	0	Initial issue of the Prime Certificate
R1467/A/2	30 Apr 2019	1	First variation, see 13.1 for details
ExV3198	25 Mar 2021	2	Transfer of the certificate from ExVeritas UK, Notified Body number 2585 to ExVeritas Denmark, Notified Body number 2804. Certificate number remains unchanged.

#### 14.2 Compliance Drawings:

##### Issue 0

Description	Number	Sheets	Issue	Date
Overall Drawing	PQ TD1	1 of 1	1.1	4.10.2018
PQD Sight Glass	PQ TD2	1 of 1	1.1	4.10.2018
PQN Junction Box cover	PQ TD3	1 of 1	1.1	4.10.2018
PQD Junction Box Cover	PQ TD4	1 of 1	1.1	4.10.2018
PQD Sight Glass cover disk	PQ TD5	1 of 1	1.1	4.10.2018
Junction Box	PQ TD6	1 of 1	1.3	4.10.2018
PQ Series product Label	TF3	1 of 1	01	11.10.2018

##### Issue 1

Description	Number	Sheets	Issue	Date
Junction Box	PQ TD6	1 of 1	1.4	12.04.2019

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Issue 2

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PQ Series product Label	TF3	1 of 1	01	11.10.2018
PQ Series product Label	TF3	1 of 1	02	04.04.2019
PQ TD6 Junction Box SS 1	PQ TD6 SS 1	1 of 1	1.0	19.02.2019
PQ TD6 Junction Box SS 2	PQ TD6 SS 2	1 of 1	1.0	19.02.2019
PQ TD3 PQN Junction Box Cover SS	PQ TD3 SS	1 of 1	1.0	19.02.2019

### 15 Conditions of Certification

#### 15.1 Special Conditions for Safe Use

- Flame-paths must not be repaired
- Equipment must only be fitted with suitably certified sensor head to maintain integrity of the Ex d enclosure wall.

#### 15.2 Conditions for Use (Routine tests)

- Equipment must only be fitted with suitably certified sensor head to maintain integrity of the Ex d enclosure wall.

### 16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.