

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 21 ATEX 71985X** **Issue 3**

[4] Product: **PTC VR Sensor**

[5] Manufacturer: **Petroleum Technology Company AS**

[6] Address: **Slettestrandveien 13,
4032 Stavanger
Norway**

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

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018 and EN 60079-11: 2012**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 1 G

Ex ia IIB T3 Ga -20°C ≤ Ta ≤ +60°C

Ex ia IIB T4 Ga -20°C ≤ Ta ≤ +60°C



Date of issue:
2023-08-17



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info

[13] **Schedule**

 [14] **EU-Type Examination Certificate No:** DNV 21 ATEX 71985X Issue 3

 [15] **Description of Product**

PTC VR Sensor is a Pressure and Temperature sensor. There are two main types, "PTC VR SensorWireless", and "PTC VR Sensor wired". The PTC VR version comes in two versions, Npolar and Polar. These are almost identical, the Npolar is indiscriminate on wiring input polarity, the other not. The communication protocol is HART. All variants consist of 3 electronics boards where the main differences is located on an interface unit. The main electronics printed circuit boards are encapsulated. In addition the Wireless version has a Hart wireless transmitter and a battery pack. The outer chassis are heavy duty stainless steel enclosures.

Type designation

PTC VR Sensor Wireless, Ex ia IIB T3 Ga
 PTC VR Sensor Wired, Ex ia IIB T4 Ga

| | Variant | Type designation |
|----|---------|---|
| 1 | AN3109 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 2 | AN6312 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 3 | AN8021 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 4 | AN10663 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 5 | AN11164 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 6 | AN11200 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 7 | AN10350 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 8 | AN8189 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 9 | AN10531 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 10 | AN10548 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 11 | AN11904 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 12 | AN12007 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 13 | AN12016 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 14 | AN12206 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 15 | AN12226 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 16 | AN12227 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 17 | AN11685 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 18 | AN11927 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 19 | AN11958 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 20 | AN12046 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 21 | AN12111 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 22 | AN12101 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 23 | AN10661 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 24 | AN11489 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 25 | AN10333 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 26 | AN11971 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 27 | AN12014 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 28 | AN11076 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |

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| 29 | AN11555 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 30 | AN10588 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 31 | AN10592 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 32 | AN10817 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 33 | AN10207 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 34 | AN11247 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 35 | AN10359 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 36 | AN09928 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 37 | AN6135 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 38 | AN7599 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 39 | AN09926 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 40 | AN7598 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 41 | AN8026 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 42 | AN9865 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 43 | AN7597 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 44 | AN8509 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 45 | AN8510 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 46 | AN7577 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 47 | AN7632 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 48 | AN9442 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 49 | AN10218 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 50 | AN10461 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 51 | AN10818 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 52 | AN10445 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 53 | AN9864 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 54 | AN9734 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 55 | AN3868 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 56 | AN4730 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 57 | AN5219 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 58 | AN5755 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 59 | AN6170 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 60 | AN6398 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 61 | AN7199 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 62 | AN7566 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 63 | AN7567 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 64 | AN12386 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 65 | AN12351 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 66 | AN12352 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 67 | AN12259 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 68 | AN12396 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 69 | AN12218 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |
| 70 | AN12750 | PTC VR Sensor Wireless, Ex ia IIB T3 Ga |
| 71 | AN12754 | PTC VR Sensor Wired, Ex ia IIB T4 Ga |

Electrical Data

I/O parameters for 4-20 mA and Hart input, PTC VR Sensor only:

Ui = 28 V, li = 93 mA, Pi = 651 mW, Ci = 6.27 nF, Li = 3.5µH

Degrees of protection (IP Code)

Wireless version: IP67

Wired version: IP67

Wired retrievable version: IP69

Wireless retrievable version: IP67

Ambient temperature:

-20°C ≤ Ta ≤ +60°C

External heat source is max 80°C

Routine tests

None

[16] **Report No.:** 400880/01

[17] **Specific Conditions of Use**

1. The antenna contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact and friction. This is according to the antenna certificate FM17ATEX0046X.
2. If located in zone, battery must be disconnected before the connector to the antenna is disconnected or connected. The female connector must be secured with the screws.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

| Number | Title | Rev. | Date |
|----------|---|------|------------|
| 22014724 | *VR Sensor Systems - ATEX IECEx List | 4 | 02.02.2023 |
| 23016933 | *VR Sensor Designation Type List - ATEX IECEx UKEx | 0 | 16.06.2023 |
| 20011506 | PTC-209-IF Board S-Modem | 1 | 16.02.2021 |
| 20011509 | PTC-209-IF Board T-Modem | 1 | 16.02.2021 |
| 20011515 | Schematic of: Ceramic Adapter Board | 1 | 16.02.2021 |
| 20011516 | Interface board (Sine Modem) | 1 | 18.02.2021 |
| 20011517 | Interface board (T Modem) | 1 | 18.02.2021 |
| 20011519 | PTC Sensor Board | 1 | 18.02.2021 |
| 20011544 | BOM for: Ceramic Adapter Board | 1 | 18.02.2021 |
| 20011546 | Main SCH (IF Board, Sine Modem 2) | 1 | 18.02.2021 |
| 20011548 | PTC Sensor Board Schematics | 1 | 18.02.2021 |
| 20011565 | (Sensorboard layout, 14 sheets) | 1 | 19.02.2021 |
| 20011566 | (Connection board layout, 14 sheets) | 1 | 26.02.2021 |
| 20011567 | Battery pack | 1 | 26.02.2021 |
| 20011568 | ConnBoard_Variant 1_Wireless | 1 | 19.02.2021 |
| 20011569 | Battery Pack Variant 1 Non-rechargeable Battery | 1 | 19.02.2021 |
| 20011570 | ConnBoard(Variant-1(Wireless)) | 1 | 19.02.2021 |
| 20011571 | ConnBoard_Variant 2_Wired NPolar | 1 | 19.02.2021 |
| 20011572 | ConnBoard_Variant 2_Wired Polar | 1 | 19.02.2021 |
| 20011573 | Wired potted plug assembly | 1 | 19.02.2021 |
| 20011577 | *AN7108 - Martec HP Cable - Identification View | 2 | 26.04.2023 |
| 20011578 | AN7113 - EM v2.1 Wired Martec - Identification View | 1 | 26.02.2021 |
| 20011579 | AN2994_0 Sensor flange assembly | 1 | 26.02.2021 |
| 20011581 | AN10346 - Conn Box VR Sense-R Wireless BOM | 1 | 26.02.2021 |
| 20011582 | AN8254 - Electronic Module Wireless Retrievable,7C 6 Pins | 1 | 26.02.2021 |
| 20011583 | AN6847 - Wireless Adapter Rev.1 | 1 | 26.02.2021 |
| 20011664 | Interface board S-Modem-2 | 1 | 26.02.2021 |
| 20011684 | (Ceramic adapter layout, 14 sheets) | 1 | 26.02.2021 |
| 20011731 | (Battery pack layout, 14 sheets) | 1 | 01.03.2021 |
| 20011751 | Wired GTMS receptacle | 1 | 26.02.2021 |
| 20011755 | (IF-board T-Modem layout, 14 sheets) | 1 | 01.03.2021 |
| 20011756 | (IF-board S-Modem layout, 14 sheets) | 1 | 02.03.2021 |
| 20011763 | PTC VR SENSOR | 1 | 26.02.2021 |
| 20011764 | Sensor Board Layout (15 sheets) | 1 | 02.03.2021 |
| 20011769 | Split feed – through assembly | 1 | 25.02.2021 |
| 20011774 | 2.0" VR Sensor Plug –API | 1 | 25.02.2021 |
| 20011780 | Connection Box Retrievable | 1 | 25.02.2021 |
| 20011782 | VR Sensor connection box comparison | 1 | 25.02.2021 |
| 20011788 | VR Sensor retrievable | 1 | 25.02.2021 |
| 20011797 | VR Sensor spool assembly 3-1/16" to 3-1/16" 10k | 1 | 25.02.2021 |
| 20011802 | 18006252 - AN8021 Comparison drawing Connection Box_0 | 1 | 25.02.2021 |

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| 20011803 | 18006253 - AN8021 Comparison drawing Electronic Bulkhead_0 | 1 | 25.02.2021 |
| 20011806 | 18006307 - AN8021 Comparison drawing VRSensor Plug_0 | 1 | 25.02.2021 |
| 20012454 | PN34149 - Battery Securing Ring | 1 | 25.02.2021 |
| 20012456 | PN27342_1 Thread Cover Mech. Drawing | 1 | 25.02.2021 |
| 20012458 | BOM - AN10112_0 - 2,875" Sharp Vee VR Sense Plug | 1 | 25.02.2021 |
| 20012459 | BOM - AN7623_0 - Fire Protection Plug 6 Pin | 1 | 25.02.2021 |
| 20012460 | BOM - AN8171_0 - 3,5" Feed-Through Plug - Solid | 1 | 24.02.2021 |
| 20012461 | BOM - AN8242_0 - Connection Box for VR Sense R | 1 | 24.02.2021 |
| 20012466 | AN8170 VRSensor-R flange | 1 | 24.02.2021 |
| 21012490 | Comparison drawing VR Sensor Plugs | 1 | 23.02.2021 |
| 21012491 | Comparison drawing Connection Box VR Sense-R | 1 | 23.02.2021 |
| 21012514 | Comparison drawing VR Sense-R Wireless | 1 | 23.02.2021 |
| 21012515 | Section View VR Sense-R Wireless | 1 | 23.02.2021 |
| 21012525 | 18006251 - AN8021 System Section View_0c | 1 | 23.02.2021 |
| 21012527 | AN 6312 VR Sensor Retrievable | 1 | 23.02.2021 |
| 21012529 | AR6571 VR Sensor Assembly | 1 | 19.02.2021 |
| 21012536 | Component list – Manufacturing (variant 01) | 1 | 19.02.2021 |
| 21012537 | PTC-209-IF SCH (variant 01) | 1 | 03.03.2021 |
| 21012538 | PTC-209-IF SCH | 1 | 03.03.2021 |
| 21012539 | PTC VR Sensor BOM | 1 | 19.02.2021 |
| PN18500 | *ATEX Label VR Sensor (Wired) | 9 | 11.11.2022 |
| PN21209 | *ATEX Label VR Sensor (Wireless) | 9 | 11.11.2022 |
| PN25934 | *ATEX Label VR Sensor Retrievable (Wired) | 5 | 11.11.2022 |
| PN34232 | *ATEX Label VR Sensor Retrievable (Wireless) | 4 | 11.11.2022 |
| PN15717 | *ATEX Label VR Sensor (All Systems) | 10 | 11.11.2022 |
| 21012953 | PCB-209-212-206 IF Board Layout - SIL | 1 | 09.04.2020 |
| 21013724 | SCHEMATICS PCA-209-211-201-ConnBoard-Wired | 01 | 15.09.21 |
| 21013725 | SCHEMATICS PCA-209-211-201-ConnBoard-Wireless | 01 | 15.09.21 |
| 21013721 | PCB Layout -PCA-209-211-201-ConnBoard-WIRED | 01 | 15.09.21 |
| 21013722 | PCB Layout -PCA-209-211-201-ConnBoard-WIRELESS | 01 | 15.09.21 |
| 21013723 | PCB Layout -PCA-209-212-207_IF_Board-Generic | 01 | 15.09.21 |
| 22014844 | Schematics-PCA-209-150-100-SB(Variant Default) | 0 | 09.05.2022 |
| 22014566 | *BOM-M-PCA-209-150-100-SB(Variant Default) | 1 | 12.01.2023 |
| 22015240 | VR Sensor System AN3109 Doc. Package | 0 | 15.08.2022 |
| 22015241 | VR Sensor System AN6312 Doc. Package | 0 | 15.08.2022 |
| 22015242 | VR Sensor System AN8021 Doc. Package | 0 | 12.08.2022 |
| 22015243 | VR Sensor System AN10663 Doc. Package | 0 | 17.08.2022 |
| 22015244 | VR Sensor System AN11164 Doc. Package | 0 | 17.08.2022 |
| 22015245 | VR Sensor System AN11200 Doc. Package | 0 | 17.08.2022 |
| 22015246 | VR Sensor System AN10350 Doc. Package | 0 | 18.08.2022 |
| 22015157 | VR Sensor System AN8189 Doc. Package | 0 | 12.08.2022 |
| 22015172 | VR Sensor System AN10531 Doc. Package | 0 | 17.08.2022 |
| 22015173 | VR Sensor System AN10548 Doc. Package | 0 | 17.08.2022 |
| 22015191 | VR Sensor System AN11904 Doc. Package | 0 | 17.08.2022 |

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| 22015200 | VR Sensor System AN12007 Doc. Package | 0 | 16.08.2022 |
| 22015202 | VR Sensor System AN12016 Doc. Package | 0 | 16.08.2022 |
| 22015206 | VR Sensor System AN12206 Doc. Package | 0 | 16.08.2022 |
| 22015207 | VR Sensor System AN12226 Doc. Package | 0 | 16.08.2022 |
| 22015208 | VR Sensor System AN12227 Doc. Package | 0 | 16.08.2022 |
| 22015190 | VR Sensor System AN11685 Doc. Package | 0 | 17.08.2022 |
| 22015197 | VR Sensor System AN11927 Doc. Package | 0 | 17.08.2022 |
| 22015198 | VR Sensor System AN11958 Doc. Package | 0 | 17.08.2022 |
| 22015203 | VR Sensor System AN12046 Doc. Package | 0 | 16.08.2022 |
| 22015205 | VR Sensor System AN12111 Doc. Package | 0 | 16.08.2022 |
| 22015204 | VR Sensor System AN12101 Doc. Package | 0 | 16.08.2022 |
| 22015180 | VR Sensor System AN10661 Doc. Package | 0 | 17.08.2022 |
| 22015188 | VR Sensor System AN11489 Doc. Package | 0 | 17.08.2022 |
| 22015168 | VR Sensor System AN10333 Doc. Package | 0 | 18.08.2022 |
| 22015199 | VR Sensor System AN11971 Doc. Package | 0 | 16.08.2022 |
| 22015201 | VR Sensor System AN12014 Doc. Package | 0 | 16.08.2022 |
| 22015185 | VR Sensor System AN11076 Doc. Package | 0 | 17.08.2022 |
| 22015189 | VR Sensor System AN11555 Doc. Package | 0 | 17.08.2022 |
| 22015174 | VR Sensor System AN10588 Doc. Package | 0 | 17.08.2022 |
| 22015179 | VR Sensor System AN10592 Doc. Package | 0 | 17.08.2022 |
| 22015182 | VR Sensor System AN10817 Doc. Package | 0 | 17.08.2022 |
| 22015166 | VR Sensor System AN10207 Doc. Package | 0 | 18.08.2022 |
| 22015186 | VR Sensor System AN11247 Doc. Package | 0 | 17.08.2022 |
| 22015169 | VR Sensor System AN10359 Doc. Package | 0 | 18.08.2022 |
| 22015165 | VR Sensor System AN09928 Doc. Package | 0 | 18.08.2022 |
| 22015147 | VR Sensor System AN6135 Doc. Package | 0 | 10.08.2022 |
| 22015154 | VR Sensor System AN7599 Doc. Package | 0 | 11.08.2022 |
| 22015164 | VR Sensor System AN09926 Doc. Package | 0 | 18.08.2022 |
| 22015153 | VR Sensor System AN7598 Doc. Package | 0 | 11.08.2022 |
| 22015156 | VR Sensor System AN8026 Doc. Package | 0 | 12.08.2022 |
| 22015163 | VR Sensor System AN9865 Doc. Package | 0 | 12.08.2022 |
| 22015152 | VR Sensor System AN7597 Doc. Package | 0 | 11.08.2022 |
| 22015158 | VR Sensor System AN8509 Doc. Package | 0 | 12.08.2022 |
| 22015159 | VR Sensor System AN8510 Doc. Package | 0 | 12.08.2022 |
| 22015151 | VR Sensor System AN7577 Doc. Package | 0 | 11.08.2022 |
| 22015155 | VR Sensor System AN7632 Doc. Package | 0 | 11.08.2022 |
| 22015160 | VR Sensor System AN9442 Doc. Package | 0 | 12.08.2022 |
| 22015167 | VR Sensor System AN10218 Doc. Package | 0 | 18.08.2022 |
| 22015171 | VR Sensor System AN10461 Doc. Package | 0 | 18.08.2022 |
| 22015183 | VR Sensor System AN10818 Doc. Package | 0 | 17.08.2022 |
| 22015170 | VR Sensor System AN10445 Doc. Package | 0 | 18.08.2022 |
| 22015162 | VR Sensor System AN9864 Doc. Package | 0 | 12.08.2022 |
| 22015161 | VR Sensor System AN9734 Doc. Package | 0 | 12.08.2022 |
| 22015209 | VR Sensor System AN3868 Doc. Package | 0 | 15.08.2022 |
| 22015210 | VR Sensor System AN4730 Doc. Package | 0 | 15.08.2022 |
| 22015211 | VR Sensor System AN5219 Doc. Package | 0 | 15.08.2022 |

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| 22015212 | VR Sensor System AN5755 Doc. Package | 0 | 15.08.2022 |
| 22015213 | VR Sensor System AN6170 Doc. Package | 0 | 15.08.2022 |
| 22015214 | VR Sensor System AN6398 Doc. Package | 0 | 15.08.2022 |
| 22015215 | VR Sensor System AN7199 Doc. Package | 0 | 15.08.2022 |
| 22015216 | VR Sensor System AN7566 Doc. Package | 0 | 15.08.2022 |
| 22015217 | VR Sensor System AN7567 Doc. Package | 0 | 15.08.2022 |
| 22015221 | VR Sensor System AN12386 Doc. Package | 0 | 16.08.2022 |
| 22015219 | VR Sensor System AN12351 Doc. Package | 0 | 16.08.2022 |
| 22015220 | VR Sensor System AN12352 Doc. Package | 0 | 16.08.2022 |
| 22015218 | VR Sensor System AN12259 Doc. Package | 0 | 16.08.2022 |
| 22015239 | VR Sensor System AN12396 Doc. Package | 0 | 11.08.2022 |
| AN6905 | *AN6905 - Power Module - Battery Pack | 5 | 22.11.2022 |
| 22014849 | Schematics-PCA-209-212-207_IF_Board-Generic | 0 | 10.05.2022 |
| 22014850 | Schematics-PCA-209-212-207_IF_Board-WIRED | 0 | 10.05.2022 |
| 22014851 | Schematics-PCA-209-212-207_IF_Board-WIRELESS | 0 | 10.05.2022 |
| 22014588 | *BOM-M-PCA-209-212-207_IF_Board-Generic | 1 | 12.01.2023 |
| 22014556 | *BOM-M-PCA-209-140C-3-SB(Variant Default) | 1 | 12.01.2023 |
| 22014575 | BOM-M-PCA-209-211-201-ConnBoard-WIRED | 0 | 11.05.2022 |
| 22014580 | BOM-M-PCA-209-211-201-ConnBoard-WIRELESS | 0 | 11.05.2022 |
| 22014585 | BOM-M-PCA-291-120-001(I2C - PIC16F25K22) | 0 | 11.05.2022 |
| 22015666 | *VR Sensor System AN12218 Doc. Package | 0 | 04.11.2022 |
| 23016542 | *VR Sensor System AN12750 Doc. Package | 0 | 25.04.2023 |
| 23016593 | *VR Sensor System AN12754 Doc. Package | 0 | 25.04.2023 |
| PN14458 | *Martec Bulkhead | 3 | 26.04.2023 |

[20] Certificate History

| Issue | Description | Issue date | Report no. |
|-------|---|------------|------------|
| 0 | Original issue | 2016-11-22 | D0002138 |
| 1 | Larger outer dimension on enclosure. Minor change in bulkhead. New Wireless HART bullet. New ATEX label VR Sensor Retrievable Wireless | 2018-10-01 | D0002138 |
| 2 | Update the sensor board to V1.5 with minor changes. New version of interface board with minor changes. New version of battery pack. | 2020-08-28 | 183020 |
| 0 | Replace the Presafe 16 ATEX 9081X. Change manufacturer to Petroleum Technology Company AS. Update the marking labels. | 2021-05-05 | 189168 |
| 1 | Update to latest EN 60079-0:2018 Add variants connection board revision 2.11. Minor changes to PCB layout. Add interface board revision 2.12. Replaced components LED1 and LED2. Minor changes to PCB layout. | 2021-11-01 | 189168/01 |
| 2 | Addition components alternatives in BOMs. New variant of sensor board PCA-209-150-100-SB(Variant Default). New variant of interface board PCA-209-212-207_IF_Board(Generic). | 2022-09-13 | 400880 |

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|---|---|------------|-----------|
| | Change to AN6905 Power Module shell mechanical tolerances. Minor changes in documents. New VR Sensor documentation systems. | | |
| 3 | Minor changes in documents. Correct typos on BOMs. New VR Sensor System variants. | 2023-08-17 | 400880/01 |

END OF CERTIFICATE

