



QPS Evaluation Services Inc



(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: **QPS23ATEX5003X** Issue Number: 0

(4) Product: **Model H.OIL Portable oil water interface meter**

(5) Manufacturer: **Heron Instruments Inc.**

(6) Address: **447 Moxley Road - Dundas, Ontario L9H-5E2 Canada**

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

(8) QPS Evaluation Services Inc. 81 Kelfield St., Units 7-9, Toronto, ON M9W 5A3, Canada, Notified Body Number 2876, in accordance with Article 17 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 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) The examination and test results are recorded in confidential test report number ATX3030-1
Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2018/AC:2020-02

EN 60079-11:2012

except in respect of those requirements listed at item 18 of 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 specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive 2014/34/EU article 13 apply to the manufacturing process and supply of this product. These are separately certified and not covered by this certificate.

(12) The marking of the product shall include the following:



II 1G
Ex ia IIB T3 Ga
Ta for probe: -45°C to +135°
Ta for reel : -45°C to +55°C

Date of certification: 11-08-2023

Rob Kohuch
Certification Manager
QPS Evaluation Services Inc.



EU-Type Examination Certificate without signature shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by QPS Evaluation Service Inc. The SCC Accreditation Symbol is an official symbol of the accreditation body and notifying authority, used under license.

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(13) **SCHEDULE**(14) **to EU-Type Examination Certificate QPS23ATEX5003X**

Issue No. 0

(15) **Description and Electrical data**

Model H.OIL is a portable oil water interface meter for the detection of LNAPL (Light Non-Aqueous Phase Liquids) and DNAPL (Dense Non-Aqueous Phase Liquids) layers in columns of water. The unit includes a detection probe which is attached to a cable or tape which is a length of up to 1.5km. The probe is lowered into an environment where detection of relevant liquids is desired. The detection probe uses an optical sensor that is used to detect the presence of liquid and an electrical sensor that is used to determine the conductivity of a liquid. The conductivity range determines whether the liquid is standard solution (water) or product (Oil/LNAPL/DNAPL). On the opposite end of the cable/tape from the probe is a reel that is used to wind up, down, and store the excess length. The reel includes an electronics assembly and a grounding lead. The grounding lead is secured to a proper grounding source before operation of the equipment. The electronics assembly interprets signals from the probe and relays that as information to the user in the form of audio and/or visual cues. The electronics assembly includes a power source in the form of one 9v Alkaline battery: user replaceable, Duracell MN1604, Procell PC1604 or Energizer 522.

(16) **Report Number:**
ATX3030-1(17) **Specific conditions of use:**
Use only one of the following 9V Alkaline cells: Duracell MN1604, Procell PC1604 or Energizer 522.
Must use ground clamp to reduce risk of electrostatic charge.(18) **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

(19) **Remarks and additional information:**
Model H.OIL followed with 1602-xxxxM or 1602-xxxxF, where xxxx stands for tape length, M for meter (1500 max) and F for feet (4920 max)(20) **Certificate history**

Issue 0 - 2023-08-11; Initial certificate.