



EU Type Examination Certificate CML 20ATEX2039X Issue 1

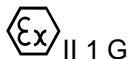
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **LIDoTT**
- 3 Manufacturer **Detectronic Limited**
- 4 Address **Regent Street, Whitewalls Industrial Estate,
Colne, Lancashire, BB8 8LJ,
United Kingdom**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, 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 equipment 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.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-11:2012

- 10 The equipment shall be marked with the following:



II 1 G

Ex ia IIB T4 Ga

Ta= -20°C to +60°C

S. Roumbedakis
Technical Manager



CML 20ATEX2039X
Issue 1

11 Description

The LIDoTT Sensor is a level (distance) measuring device for use within the sewer networks. It is housed in a custom plastic moulded case and designed for connection to suitable certified associated equipment. The LIDoTT Sensor will be fastened to the sewer wall by means of a bracket and bolts.

The device has three sensors (piezo, pressure and temperature) mounted in the base (transducer plate) of the case and the LIDoTT Sensor communicates and is powered by a connecting cable exiting from the top of the housing.

The LIDoTT contains, a Tadiran SL2780 or Tadiran SL2880 or Xeno XL-205F as an auxiliary supply, contained within the enclosure.

The equipment has the following safety description:

Ui	=	13.65V
Ii	=	150 mA
Pi	=	0.65W
Ci	=	0
Li	=	0

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Aug 2020	R12908A/00	Issue of Prime Certificate
1	21 Aug 2020	-	Update to format

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- The LIDoTT Sensor is designed in accordance with general electrical safety standards e.g. IEC 60950 or IEC 61010-1.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important if the equipment is installed in a Zone 0 location.



CML 20ATEX2039X
Issue 1

- ii. Only Tadiran SL2780, SL2880 or Xeno XL-205F batteries may be used as an auxiliary supply. This must only be changed when it can be proved that the local atmosphere contains no hazardous gas and must be changed by a suitably authorised person.

Certificate Annex

Certificate Number CML 20ATEX2039X
Equipment LIDoTT Sensor
Manufacturer Detectronic Limited



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
C103-1-DRW003-4	1 of 1	4	06 Aug 2020	LIDoTT Sector Diagram
C103-1-DRW001	1 of 1	1	06 Aug 2020	LIDoTT Cased Assembly Drawing
C103-1-DRW002	1 of 1	3	06 Aug 2020	LIDoTT General Assembly
C103-PN001-7	1 to 3	1	06 Aug 2020	LiDoTT Microcontroller Schematic
C103-PN001-7-BOM-3	1 to 4	/	06 Aug 2020	LIDoTT PCB ATEX Certified BOM
C103-1-DRW004	1 of 1	1	06 Aug 2020	LIDoTT Front Face Label

Issue 1

None