




## EU Type Examination Certificate CML 19ATEX1356X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Water in Oil Monitor - ZT-100 Series**
- 3 Manufacturer **Zelentech Pte Ltd**
- 4 Address **55 Serangoon North  
Avenue 4, #04-05,  
S9 Building,  
Singapore**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, 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 60079-1:2014
- 10 The equipment shall be marked with the following:  
  
 II 2G  
  
Ex db IIC T4 Gb  
  
Ta= -20°C to +60°C



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## 11 Description

The ZT-100 series is a Water in Oil Monitor which measures water concentration in oil. The monitor consists of the following certified parts:

Part	Manufacturer and Model Number	Certificate
Enclosure	IME Model 9080	IECEX SIR 12.0151X*
Line Bushing	Quintex Model LB series	EPS 11ATEX1342
Union	CMP Model 780	CML 18ATEX1327X
Union	Reducer Model 737	CML 18ATEX1320X

Custom electronics are placed in the flameproof enclosure. Wires carry the signal from the sensor located in the process piping through the bushings, nipple and union combination into the flameproof enclosure.

\* The standards applied for IECEX SIR 12.0151X are considered to be technically identical to the ATEX equivalents and as such the enclosure is considered to be acceptable for this application. Overall ATEX marking is applied for the assembly.

Model Nomenclature:

ZT100-A##-##-##-##-##-##-9080BB-CC

Where:

A	Mount type	F - Flange S - Threaded I - Welded T - Welded
BB	Enclosure Type	AM - IME 9080 Aluminium ExD WM - IME 9080 Aluminium ExD with Window TM - IME 9080 SS316L SM - IME 9080 SS316L with Window
CC	Cable Entry	07 - 3/4" NPT 08 - 1/2" NPT 09 - M20 x 1.5 32 - M25 x 1.5
#	Denotes options not affecting Ex compliance	

The equipment is rated as follows:

12-26 V dc, 0.66 W

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	23 Aug 2019	R12675A/00	Issue of Prime Certificate

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



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### 13 Conditions of Manufacture

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

- i. 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.

### 14 Specific Conditions of Use (Special Conditions)

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

- i. The maximum process temperature is 130°C.
- ii. The enclosure, when coated with non-conducting paint, may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user shall ensure that the equipment is not installed in a location where it may be subjected to external conditions such as high pressure stream which might cause a build-up of electrostatic charge on non-conductive surfaces. Additionally, the equipment shall only be cleaned using a damp cloth.
- iii. External thread types other than metric or NPT are not permitted as an option for cable glands in field wiring installations. Therefore, the user shall ensure that no such cable glands are installed in the enclosure entries.
- iv. Regardless of the type of mounting, the line bushing shall be secured against twisting or loosening.

## Certificate Annex

**Certificate Number** CML 19ATEX1356X  
**Equipment** Water in Oil Monitor - ZT-100 Series  
**Manufacturer** Zelentech Pte Ltd



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

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
ZTEX-100-ZT100 Series	1 to 4	1	23 Aug 2019	ZT-100 Series Capacitance Device
WI-502-002-000-ZT-100B-Ex	1 of 1	1	23 Aug 2019	Certification Label Drawing
95-206-0003-ZT-100 B	1 to 4	1	23 Aug 2019	Bill of Material
K206-0200-01	1 to 8	-	23 Aug 2019	PCB Board
K206-0100-01	1 to 2	01	23 Aug 2019	Circuit Diagram