EU Type Examination Certificate CML 23ATEX3168X Issue 1

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

2 Equipment **VibMil Vibration Transmitter**

3 Manufacturer **Don Electronics Limited**

4 Address **Westfield Industrial Estate,**
Kirk Lane,
Yeadon, Leeds,
LS19 7LX, UK

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins CML B.V., Chamber of Commerce No 67386717, 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 60079-31:2024

10 The equipment shall be marked with the following:

II 1 D

Ex ta IIIC T_{200}90°C Da

-40°C ≤ T_a ≤ +50°C

IP66

11 Description

VibMil is a loop-powered vibration sensor designed for monitoring vibration levels in industrial environments. VibMil can be powered via the current loop power (between 15 VDC to 26.4 VDC). VibMIL represents measured RMS velocity (mm/s) over the industry standard 4-20 mA loop. It is built with a stainless-steel enclosure, making it suitable for continuous vibration monitoring even in harsh environments.

The device also offers an integrated temperature sensor option (NTC/Pt100), providing real-time temperature readings.

Additionally, the device features conduit fitting thread on the housing, offering extra protection for cables in environments where they are prone to environmental damage. VibMil can be mounted to a machine using an adapter that is suitable for the end application fixing.

Variation 1

This report assesses the following modification to the Encoder Flex.

i. Change to the name and compound of the silicon sealant AS5600.

12 Certificate history and evaluation reports

0	11 Aug 2023	R16330A/00	Issue of Prime Certification
1	27 Jan 2025	R18222B/00	Introduction of Variation 1

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

13 Conditions of Manufacture

None.

14 Specific Conditions of Use (Special Conditions)

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

i. The supply circuit of the system where the equipment is connected shall be protected by a suitably rated fuse capable of interrupting a prospective short circuit current of 1.5kA.

ii. The VibMil shall be connected to a suitable external earth via the threaded conduit entry or via the machine on which the sensor is mounted using the female thread.

iii. The integral flying lead/cable shall be terminated in a suitably certified enclosure or in a safe area.

Certificate Annex

Certificate Number	**CML 23ATEX3168X**
Equipment	**VibMil Vibration Transmitter**
Manufacturer	**Don Electronics Limited**

The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved Date	Title
DE8030-4-002-S	1	1	11 Aug 2023	VIBRATION TRANSMITTER LABEL AI VERSION
DE8030-5-001-S	1	1	11 Aug 2023	VIBRATION TRANSMITTER GENERAL ASSEMBLY
DE8030-2-001-S	5	8	11 Aug 2023	VIBRATION TRANSMITTER SCHEMATICS

Issue 1

Drawing No	Sheets	Rev	Approved Date	Title
DE8030-5-001-S	1 of 1	2	27 Jan 2025	VIBRATION TRANSMITTER GENERAL ARRANGEMENT ASSEMBLY