

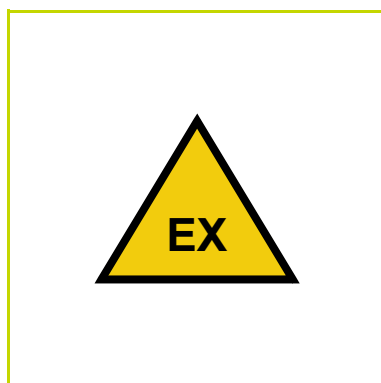
EX CERTIFICATE – UK

vibro-meter®

CML 21 UKEX 4547 X

for

VibroSmart® VSV301 + VSB300
monitoring module



Note: Although the Ex certificate may be included in more than one language, the liability of the notified body applies only on the text of the original copy of the certificate that it published.

Document reference CML 21 UKEX 4547 X
Edition 1 – September 2021

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CML 21UKEX4547X
Issue 0

Type Examination Certificate CML 21UKEX4547X Issue 0

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)
- 2 Equipment **VibroSmart**
- 3 Manufacturer **Meggitt SA**
- 4 Address **Route de Moncor 4,
1752 Villars-sur-Glane,
Switzerland**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, 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 Schedule 1 of the Regulations.
- 7 The examination and test results are recorded in the confidential reports listed in Section 12. If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 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 60079-15:2010

- 10 The equipment shall be marked with the following:
 Refer to attached certificate LCIE 13 ATEX 1041 X, Issue 02 for specific marking of explosion protection symbols.
Refer to attached certificate LCIE 13 ATEX 1041 X, Issue 02 for marked code and ambient temperature range.

L. A. Brisk
Certification Officer

1 of 2

This certificate shall only be copied in its entirety and without change
www.CMLEx.com

- 11 Description
For product description refer to attached certificate LCIE 13 ATEX 1041 X, Issue 02.
- 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Aug 2021	R14182H/00	Issue of the prime certificate. LCIE 13 ATEX 1041 X, Issue 02 is attached and shall be referred to in conjunction with this certificate.

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

- 13 Conditions of Manufacture
For conditions of manufacture, refer to attached certificate LCIE 13 ATEX 1041 X, Issue 02. Any routine tests/verifications required by the ATEX certification shall be conducted
- 14 Specific Conditions of Use
For specific conditions of use, refer to attached certificate LCIE 13 ATEX 1041 X, Issue 02.

2 of 2

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www.CMLEx.com
Version: 4.0 Approval: Approved



ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE



LCIE

1 Version : 02 **LCIE 13 ATEX 1041 X** Issue : 02

Directive 2014/34/EU
Appareil ou Système de Protection destiné à être utilisé en Atmosphères Explosibles

Product :
VibroSmart

Type : VSX YYY

Manufacturer :
MEGGITT SA

Address :
Route de Moncor 4
1752 Villers-sur-Glâne
Suisse

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

LCIE certifies that 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 report(s) N° : 115331-629910 ; 131035-663820 Rev A, 141861-686061

Compliance with the Essential Health and Safety Requirements has been assured by compliance with : EN 60079-0:2012 +A1:2013 ; EN 60079-15:2010

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.

This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product is specified in the schedule to this certificate.

Fontenay-aux-Roses, le 12 juin 2018

Responsible de Certification
LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES
Julien Gauthier
M.A.S. au capital de 100 000 €
33 Avenue du Général Leclerc
F - 92266 FONTENAY-AUX-ROSES

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Laboratoire Central des Industries Electriques
Une société de Bureau Veritas

33 Avenue du Général Leclerc
92260 Fontenay-aux-Roses
FRANCE

WWW.LCIE.FR

ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE

1 Version : 02 **LCIE 13 ATEX 1041 X** Issue : 02

DESCRIPTION DU PRODUIT
Le VibroSmart se compose de modules pour mesurer les vibrations sur les machines tournantes.

DESCRIPTION OF PRODUCT
VibroSmart consists of modules for measuring vibration on rotating machinery.

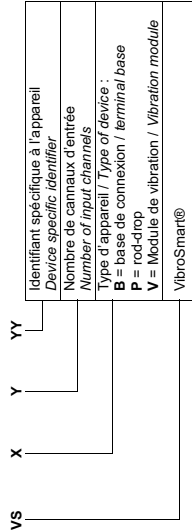
La différence entre les différents modèles repose sur des logiciels différents et de plaque frontale différente.

The difference between the different models consists in a different Firmware and different front plate.

Chaque système est constitué de 2 parties :
- Base commune VSB300
- Module électronique :

Each system is constituted by 2 parts :
- Common base VSB300
- Electronic module :

- VSV 300
- VSV 301
- VSV 310
- VSP 300



DETAIL DE LA GAMME
U ≤ 32 VDC
I ≤ 625 mA
P ≤ 10 W

RANGE DETAILS
U ≤ 32 VDC
I ≤ 625 mA
P ≤ 10 W

La classe de température dépend de la température ambiante maximale :

Temperature class depending on maximum ambient temperature :

Température ambiante Ambient temperature	Classe de température Temperature class
-25°C à/à +70°C	T4
-25°C à/à +60°C	T5
-25°C à/à +45°C	T6

MARQUAGE
Le marquage du produit doit comprendre :
MEGGITT SA ou MFR S3960

MARKING
The marking of the product shall include the following :
Meggit SA or MFR S3960

Adresse : ...
Type : VSX YYY
N° de fabrication : ...
Année de fabrication : ...
Ⓢ II 3 G
Ex nA IIC T6, T4 Gc (1)
LCIE 13 ATEX 1041 X

Address : ...
Type : VSX YYY
Serial number : ...
Year of construction : ...
Ⓢ II 3 G
Ex nA IIC T6, T4 Gc (1)
LCIE 13 ATEX 1041 X

(1) voir le tableau des températures
L'appareil doit également comporter le marquage normalement prévu par les normes de construction qui le concernent sous la responsabilité du fabricant.

(1) see temperatures table
The equipment shall also bear the usual marking required by the product standards applying to such equipment under the manufacturer responsibility.

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ATTESTATION D'EXAMEN DE TYPE - ANNEXE TYPE EXAMINATION CERTIFICATE - SCHEDULE



1 Version : 02 Issue : 02
LCIE 13 ATEX 1041 X

13 CONDITIONS PARTICULIERES D'UTILISATION

- a. Les paramètres électriques du module d'alimentation peuvent être connectés à des équipements ne dépassant pas les valeurs suivantes : U ≤ 32 V ; I ≤ 625 mA ; P ≤ 10 W.
- b. L'équipement doit uniquement être utilisé dans une zone d'au moins un degré de pollution 2, tel que défini dans la norme EN 60664-1.
- c. L'enveloppe finale doit porter le marquage d'avertissement suivant "Ne pas remplacer les modules électroniques en présence d'une atmosphère explosive".
- d. Pour l'installation finale, le VibroSmart doit être connecté conformément aux exigences de la norme EN 60079-14, en fournissant et en maintenant un boîtier avec un degré de protection minimale IP54.
- e. La protection contre les phénomènes transitoires doit être fournie à un niveau ne dépassant pas 140% de la valeur de la tension nominale de crête aux bornes d'alimentation de l'équipement.
- f. Tableau des températures :

Température ambiante Ambient temperature	Classe de température Temperature class
-25°C à/to +70°C	T4
-25°C à/to +60°C	T5
-25°C à/to +45°C	T6

14 EXIGENCES ESSENTIELLES DE SANTE ET DE SECURITE

Couvertes par les normes listées au point 8.

ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

Covered by standards listed at 8.

15 DOCUMENTS DESCRIPTIFS

N°	Description	Reference	Rev.	Date	Page(s)
1.	Technical file	DT 1054	02	2016/03/31	19
2.	Hardware manual	MADWS-HW/E	---	---	---

DESCRIPTIVE DOCUMENTS

16 INFORMATIONS COMPLEMENTAIRES

Essais individuels

Conformément au paragraphe 23.2.1 de la norme EN 60079-15 chaque exemplaire de l'équipement doit être soumis à un essai de rigidité diélectrique sous 500 volts pendant 60s.

ADDITIONAL INFORMATIONS

Routine tests

According to clause 23.2.1 of EN 60079-15 standard, each apparatus shall be submitted to a dielectric strength test under 500 Volts during 60s.

17 DETAILS DES MODIFICATIONS DE L'ATTESTATION

- Version 00 : Certification initiale selon les normes :
 29/11/2013 - EN 60079-0:2012,
 - EN 60079-15:2010.
- Version 01 : Modification du type.
 rev A : Mise à jour normative selon la norme EN 12/01/2015 60079-0:2012 +A11:2013.
- Version 02 : - Ajout d'un nouveau modèle VSV 301.
 - Modification du module d'alimentation.
- Issue 00 : Initial issue according to following standards:
 2013/11/29 - EN 60079-0:2012,
 - EN 60079-15:2010.
- Issue 01 : Modification of type.
 rev A : Normative update according to EN 60079-0:2012 +A11:2013 standard.
- Issue 02 : - Addition of VSV 301 module.
 - Modification of power supply module.

DETAILS OF CERTIFICATE CHANGES

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