

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **SGS21ATEX0012X**

4 Product: **Chesterton Connect**

5 Is held by: **A.W. Chesterton Company**

6 Address: **860 Salem Street, Groveland, Massachusetts, 01834,
United States of America**

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

8 SGS Fimko Oy, Notified Body number 0598, 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 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 No. **GB/BAS/ExTR21.0015/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 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 apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

⊕ II 1 G Ex ia IIB T4 Ga (-20 °C ≤ Ta ≤ +85 °C)

⊕ II 1 D Ex ia IIB T₂₀₀166 °C Da (-20 °C ≤ Ta ≤ +85 °C)

SGS Fimko Oy Customer Reference No. **5135**

Project File No. **20/0321**

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Schedule

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Certificate Number SGS21ATEX0012X

15 Description of Product

The Chesterton Connect is a fixed vibration monitoring circuit with an external connection to permit connection to an external sensor in order to measure additional parameters. The equipment may be capable of measuring other parameters in its current design. The equipment is battery powered using a single 3.6 V Lithium Thionyl Chloride D-Type Cell. The cell is user replaceable and the equipment only permits the use of a Tekcell SB-D02 cell for the application. The equipment transmits data measured to a receiving device by means of a Bluetooth signal.

The Chesterton Connect is a two-part plastic assembly comprising of a base coloured red and a yellow lid with a transparent top that is light transmitting. The top cover screws on top of the base without the use of a tool. The base of the equipment contains a strong magnet and a rubberised boot for fixing the equipment in the designated location.

An M12 connector is available to permit the use of an external sensor. The external sensor is a special assembly of A.W. Chesterton design and can only be obtained from A.W. Chesterton Company. If an external sensor is not used a special connector is provided that activates the equipment.

The M12 connector contains input parameters that are used to control the external sensors that may be connected to the device. The following table summarises the associated terminal parameters applicable to the equipment.

U _o	=	3.90 V
I _o	=	850.97 mA
P _o	=	706.96 mW
C _i	=	974.86 µF
L _i	=	8.97 µH

16 Report Number

GB/BAS/ExTR21.0015/00

17 Specific Conditions of Use

1. The plastic enclosure is a potential electrostatic hazard. Clean only with a damp cloth and do not mount equipment directly in a high velocity dust laden atmosphere where the dust can flow over the equipment enclosure. This will prevent the build-up of electrostatic charge on the external surface of the equipment enclosure.
2. Replace cells only with a Tekcell SB-D02 cell in a non-hazardous area.
3. The installer must make adequate arrangements in the installation in order to ensure that the main body and its contents are maintained in the ambient temperature range of the equipment.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Documents listed in IECEx BAS 21.0008X, GB/BAS/ExTR21.0015/00 and SGS21ATEX0011X				
S0003	1 of 1	02	12/08/2020	S0003-012_Label-Rear

The above drawings are associated and held with IECEx Certificate No. IECEx BAS 21.0009X, and also associated with ATEX Certificate No. SGS21ATEX0012X