



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 16.0131X Issue No: 0 Certificate history:  
Issue No. 0 (2017-03-15)

Status: **Current** Page 1 of 3

Date of Issue: **2017-03-15**

Applicant: **TPI Europe**  
13 Ardglen Industrial Estate  
Whitchurch  
Hampshire  
RG28 7BB  
**United Kingdom**

Equipment: **Vib Meter Type 9080-Ex**  
*Optional accessory:*

Type of Protection: **Intrinsic Safety**

Marking: **Ex ib IIC T4 Gb (-20 ° C ≤ Ta ≤ +40 ° C)**

*Approved for issue on behalf of the IECEx  
Certification Body:*

R S Sinclair

*Position:*

Technical Manager

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

**SGS Baseefa Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire, SK17 9RZ**  
**United Kingdom**





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Manufacturer: **Synatel Instrumentation Limited**  
Walsall Road  
Norton Canes  
Cannock  
Staffordshire  
WS11 9TB  
**United Kingdom**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/BAS/ExTR16.0397/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0065/07](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Vib Meter Type 9080-Ex is a vibration meter that can be used to take measurements of vibration using a cable connected (intrinsically safe) accelerometer. The vibration meter is capable of displaying vibration in a variety of different formats such as overall values of acceleration, velocity or displacement, frequency spectra or vibration in various frequency bands centred on multiples of a machine's running speed for example.

The vibration meter comprises a handheld unit with processor PCB, LCD display and keypad. The keypad is used to initiate readings and navigate through the various different vibration display formats.

The unit is battery powered using two Energizer L91 type AA cells, which may only be changed in the non-hazardous area, that are fitted via a battery compartment lid that is attached by 6 screws to the rear of the instrument.

The only electrical connection that can be made to the vibration meter is the connection of an intrinsically safe accelerometer via an integral BNC connector.

The accelerometer BNC connector has the entity parameters:

$U_o = 21.42V$

$I_o = 75mW$

$P_o = 400mW$

$C_i = 0$

$L_i = 0$

$C_o = 100nF$

$L_o = 3mH$

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The elastomeric boot shall be fitted to the instrument at all times when used in the hazardous area