



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BAS 19.0109** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2020-07-27\)](#)
[Issue 0 \(2019-12-18\)](#)
Date of Issue: 2020-11-12
Applicant: **MadgeTech, Inc.**
6 Warner Road
Warner NH 03278
United States of America
Equipment: **RHTEMP1000EX and TEMP1000EX**
Optional accessory:
Type of Protection: **Intrinsic Safety**
Marking: **Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +80°C)**

Approved for issue on behalf of the IECEx
Certification Body:

Mr R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:

12.11.2020

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Manufacturer: **MadgeTech, Inc.**
6 Warner Road
Warner NH 03278
United States of America

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR19.0287/00](#)

[GB/BAS/ExTR20.0079/00](#)

[GB/BAS/ExTR20.0167/00](#)

Quality Assessment Report:

[GB/BAS/QAR19.0019/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The product is a temperature sensor TEMP1000EX and temperature with humidity sensor RHTEMP1000EX with additional model variants. These dataloggers are to monitor temperature and humidity for intended area of deployment. The data logging stops once the maximum memory capacity is reached. This data is extracted by removing the product from the area of deployment and putting it onto a docking station, through serial communication. Data recording will re-start only once reset by the computer. The data is then collected. These sensors are designed to be intrinsically safe for temperature range of $-40^{\circ}\text{C} < T_{\text{amb}} < 80^{\circ}\text{C}$. Equipment is designed for Zone 0, under EPL Ga for gas group IIC, classified under temperature code T4. Humidity range for the product is from 0% to 100% on RH scale. Equipment is powered by one Tadiran TL 2150 1/2AA cell. Product dimensions for TEMP Model Series is 2.65 in. X .97 in. dia., with various lengths of probe attachments based on utilization. And, RHTEMP Model Series is 1.7 in. X 0.97 in. X 0.97 in. They appear alike and are cylindrical portable sensors, with probe attachments, which is the difference in the Model Series. In addition, there is mechanical key ring feature provided on enclosure for aesthetic looks only. This design does not relate to safety or protection type of the product.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Variation 2.1

To permit minor drawing changes not affecting the previous assessment.

ExTR: GB/BAS/ExTR20.00167/00

File Reference: 20/0489
