



EU Declaration of Conformity

No. DC-2020-02

The name and address of the manufacturer:

MadgeTech, Inc.
6 Warner Road
Warner, NH 03278 USA

Product model and description:

902153-00 - Temp1000EX-2
902154-00 - RHTemp1000EX
902155-00 - Temp1000EX-1
902156-00 - Temp1000EX-5.25
902157-00 - Temp1000EX-7
902208-00 - RHTemp1000EX-KR
902209-00 - Temp1000EX-1-KR
902210-00 - Temp1000EX-2-KR
902211-00 - Temp1000EX-5.25-KR
902212-00 - Temp1000EX-7-KR

This product conforms with the following Union harmonization legislation:

2014/34/EU

The following harmonized standards and other technical specification were used in support of the declaration:

Harmonized Standards:	EN 60079 - 0	Edition 2018
	EN 60079 - 11	Edition 2012

Other Standards and Specifications used: None

Notified body SGS Baseefa, number 1180 performed EU-Type examination in accordance with Annex III of the directive and issued the certificate: Baseefa19ATEX0126

Notified body SGS Baseefa, number 1180 performed Conformity to type based on quality assurance of the production process in accordance with Annex IV of the directive and issued the QA Notification document: Baseefa19ATEX0126

Declared on behalf of MadgeTech, Inc.

Dianne Moulton, Quality Manager
Issued from MadgeTech, Inc. Warner, NH USA January 31, 2020

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: **Baseefa19ATEX0126**

4 Product: **RHTEMP1000EX and TEMP1000EX**

5 Manufacturer: **MadgeTech, Inc**

6 Address: **6 Warner Road, Warner, NH 03278, USA**

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

8 SGS Baseefa, Notified Body number 1180, 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/ExTR19.0287/00**

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 :

Ex II 1G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +80°C)

SGS Baseefa Customer Reference No. **8001**

Project File No. **19/0594 (SUW-4437700-TRF-03)**

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R S Sinclair

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa19ATEX0126

15 Description of Product

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.

16 Report Number

GB/BAS/ExTR19.0287/00

17 Specific Conditions of Use

None

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
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
902153-00	1 of 1	1.0	07/26/2019	TEMP1000EX-2, 2" PROBE TEMP DATA LOGGER ATEX/IECEX
SUB-1367006-02	1 of 1	1.0	07/26/2019	TEMP1000EX-2 MANUFACTURED ASSEMBLY
SUB-1367007-XX	1 of 1	1.0	07/22/2019	TEMP1000EX-XX ELECTRICAL ASSEMBLY
SUB-2105007-01	1 of 1	1.0	07/26/2019	1000EX PCB SUB ASSEMBLY
SUB-2106007-02	1 of 1	1.1	11/22/2019	HITEMP140 & 1000Ex 2" PROBE BOARD SUB ASSEMBLY
SVC-2104007-00	1 of 1	1.1	11/22/2019	BOARD HT & 1000Ex 2-PIN BATTERY CONTACT PCB ASSEMBLY
SVC-2105007-01	1 to 2	1.1	11/22/2019	1000EX PCB ASSEMBLY
902154-00	1 of 1	1.0	07/26/2019	RHTEMP1000EX, TEMP&RH DATA LOGGER, ATEX/IECEX
SUB-1368006-00	1 of 1	1.0	07/26/2019	RHTEMP1000EX MANUFACTURED ASSEMBLY
SUB-1368007-00	1 of 1	1.0	07/26/2019	RHTEMP1000EX ELECTRICAL ASSEMBLY
SUB-2107007-00	1 of 1	1.0	07/22/2019	HITEMP140 & 1000EX RH ADAPTER ASSEMBLY
SVC-2107007-01	1 of 1	1.1	11/22/2019	PCB ASSEMBLY, HITEMP140 & 1000EX RH SENSOR ADAPTER ASSEMBLY

Number	Sheet	Issue	Date	Description
902155-00	1 of 1	1.0	07/26/2019	TEMP1000EX-1, 1" PROBE TEMP DATA LOGGER ATEX/IECEX
SUB-1367006-01	1 of 1	1.0	07/26/2019	TEMP1000EX-1 MANUFACTURED ASSEMBLY
SUB-1367007-01	1 of 1	1.0	07/22/2019	TEMP1000EX-1 ELECTRICAL ASSEMBLY
902156-00	1 of 1	1.0	07/26/2019	TEMP1000EX-5.25, 5.25" PROBE TEMP DATA LOGGER ATEX/IECEX
SUB-1367006-03	1 of 1	1.0	07/26/2019	TEMP1000EX-5.25 MANUFACTURED ASSEMBLY
SUB-2106007-03	1 of 1	1.1	11/22/2019	HITEMP140 & 1000Ex 5.25" PROBE BOARD SUB ASSEMBLY
902157-00	1 of 1	1.0	07/26/2019	TEMP1000EX-7, 7" PROBE TEMP DATA LOGGER ATEX/IECEX
SUB-1367006-04	1 of 1	1.0	07/26/2019	TEMP1000EX-7 MANUFACTURED ASSEMBLY
SUB-2106007-04	1 of 1	1.1	11/22/2019	HITEMP140 & 1000Ex 7" PROBE BOARD SUB ASSEMBLY
DOC-902154-00	1 of 1	1.0	07/24/2019	RHTEMP100EX, TEMPERATURE AND HUMIDITY DATA LOGGER ATEX/IECEX
DOC-902155-00	1 of 1	1.0	07/24/2019	TEMP100EX-1, 1-INCH PROBE TEMPERATURE DATA LOGGER ATEX/IECEX
DOC-2104002-00	1 of 1	1.0	01/21/2019	HITEMP140 AND 1000EX SCHEMATIC DRAWING, 2-PIN BATTERY CONNECTION
DOC-2104003-00	1 of 1	1.0	01/21/2019	PCB ASSEMBLY, HITEMP140 AND 1000EX 2-PIN BATTERY CONNECTION
DOC-2105002-01	1 of 1	1.0	03/25/2019	SCHEMATIC DRAWING 1000EX PCB
DOC-2105003-01	1 of 1	1.0	05/30/2019	PCB ASSEMBLY, 1000EX
DOC-2106002-XX	1 of 1	1.0	05/31/2019	HITEMP140 AND 1000EX SCHEMATIC DRAWING, RIGID AND FLEXIBLE PROBE ADAPTER
DOC-2106003-XX	1 of 1	1.0	05/31/2019	PCB ASSEMBLY, HITEMP140 AND 1000EX RIGID AND FLEXIBLE PROBE ADAPTER
DOC-2107002-01	1 of 1	1.0	05/31/2019	HITEMP140 AND 1000EX RELATIVE HUMIDITY SCHEMATIC DRAWING, SENSOR ADAPTER (RHI)
DOC-2107003-01	1 of 1	1.0	05/31/2019	PCB ASSEMBLY, HITEMP140 AND 1000EX RELATIVE HUMIDITY SENSOR ADAPTER (RHi)

The above drawings are associated and held with IECEX Certificate No. IECEX BAS 19.0109 Iss. 0