# 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 CML 22.0106X** | Page 1 of 3 | Certificate history: |
| Status: | **Current** | Issue No: 0 | |
| Date of Issue: | 2023-02-22 | | |
| Applicant: | **Metal Samples Company**<br>A division of Alabama Speciality Products, Inc<br>152 Metal Samples Road<br>Munford<br>Alabama<br>36268<br>**United States of America** | | |
| Equipment: | **MS8000UT-HRT/ISA & MS800XUT-HRT/ISA (X - NUMBER OF SENSOR O/P CHANNELS)** | | |
| Optional accessory: | | | |
| Type of Protection: | **Intrinsic Safety "i"** | | |
| Marking: | Ex ia IIC T4 Ga<br>-40°C < Ta < +70°C With Battery packs ET2812<br>-40°C < Ta < +50°C With Battery packs ET2830 | | |

| | |
|---|---|
| Approved for issue on behalf of the IECEx Certification Body: | **A Snowdon** |
| Position: | **Certification Manager** |
| Signature: (for printed version) | A Snowdon |
| Date: (for printed version) | 2023-02-22 |

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:

**Eurofins E&E CML Limited**
**Unit 1, Newport Business Park**
**New Port Road**
**Ellesmere Port, CH65 4LZ**
**United Kingdom**

# IECEx Certificate of Conformity

Certificate No.: **IECEx CML 22.0106X** Page 2 of 3

Date of issue: 2023-02-22 Issue No: 0

Manufacturer: **Metal Samples Company**
A division of Alabama Speciality Products, Inc
152 Metal Samples Road
Munford
Alabama
36268
**United States of America**

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 Report:

GB/CML/ExTR22.0249/00

Quality Assessment Report:

GB/ITS/QAR14.0019/05

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**EQUIPMENT:**
Equipment and systems covered by this Certificate are as follows:

The MS8000UT-HRT/ISA & MS800XUT-HRT/ISA (X - Number of Sensor o/p Channels) are battery powered thickness monitoring devices.

**Refer to annex for full description and conditions of manufacture.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**
Refer to Annex for Specific Conditions of Use.

**Annex:**

Annex IECEx CML 22.0106X Iss 0.pdf

| | |
|---|---|
| **Annexe to:** | **IECEx CML 22.0106X, Issue 0** |
| **Applicant:** | **Metal Samples Company (a Division of Alabama Specialty Products Inc)** |
| **Apparatus:** | **MS8000UT-HRT/ISA & MS800XUT-HRT/ISA (X - NUMBER OF SENSOR O/P CHANNELS)** |

## Description

The MS8000UT-HRT/ISA & MS800XUT-HRT/ISA (X - Number of Sensor o/p Channels) are battery powered thickness monitoring devices. Readings of the subject are made over time using an ultrasonic sensor to determine the rate of degradation. The data is transmitted via wireless using a HART or ISA communication protocol to the safe area.

The boards have the following output connections for maintenance which have the following parameters.

| Host board<br>Port J6 | Host board<br>Port J7 | Measurement board<br>P5 |
|---|---|---|
| HART Modem | Maintenance Port | Setup Port |
| Uo = 5.88 V<br>Io = 0.98 A<br>Po = 0.972 W<br>Ci = 3 uF<br>Li = 44.7 uH | Uo = 5.88V<br>Io = 0.002 A<br>Po = 0.003 mW<br>Ci = 0<br>Li = 0 | Uo = 5.88 V<br>Io = 0.001 A<br>Po = 0.001 W<br>Ci = 0 uF<br>Li = 0 uH |

The MS8000UT-HRT/ISA & MS800XUT-HRT/ISA has the following sensor outputs with the following parameters:

| Single channel | Multi Channel | |
|---|---|---|
| Probe & Thermocouple | Thermocouple | Probe |
| Uo = 5.88 V<br>Io = 1 A<br>Po = 1.1 W<br>Ci = 15 uF<br>Li = 0 | Uo = 1.2 V<br>Io = 0.0007 A<br>Po = 0.0002mW<br>Ci = 0<br>Li = 0 | Uo = 5.88 V<br>Io = 0.891 A<br>Po = 0.646 W<br>Ci = 15 uF<br>Li = 0 |

Note – all parameters apply to all pins within each connector combined

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## Conditions of Manufacture

The following are conditions of manufacture:

i. Where the product incorporates certified parts or safety-critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

## Specific Conditions of Use

The following relate to the installation and/or safe use of the equipment:

i. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. This is particularly important if the equipment is installed in a zone 0 location. In addition, the equipment shall only be cleaned with a damp cloth.

ii. Only certified sensors or the sensors assessed in this certification shall be used with this equipment

iii. The enclosure can be manufactured from Aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a zone 0 location.