

IECEx Certificate of Conformity

Stelios Roumbedakis

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 23.0042X** Page 1 of 4 Certificate history: Issue 0 (2023-07-24)

Issue No: 1 Status: Current

Date of Issue: 2025-06-27

Metal Samples Company (A Division of Alabama Specialty Products Inc.) Applicant:

152 Metal Samples Road

AL 36268

United States of America

MS2801L CorrTran MV RS-485 LPR Transmitter Equipment:

Optional accessory:

Flameproof "db", Intrinsic Safety "ia" Type of Protection:

Ex db [ia Ga] IIC T5...T4 Gb Marking:

-40°C to +80°C

Ex db [ia Ga] IIC T6 Gb

-40°C to +70°C

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Certification Manager**

Signature:

S. Roumbedakis (for printed version)

2025-06-27 (for printed version)

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Certificate issued by:

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







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Date of issue: 2025-06-27 Issue No: 1

Manufacturer: Metal Samples Company (A Division of Alabama Specialty Products Inc.)

152 Metal Samples Road

Munford AL 36268

United States of America

Manufacturing Meta

Metal Samples Company (A Division of Alabama Specialty Products Inc.)

152 Metal Samples Road

Munford AL 36268

United States of America

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:

locations:

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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

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/CML/ExTR23.0054/00 GB/CML/ExTR25.0099/00

Quality Assessment Report:

GB/ITS/QAR14.0019/07



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Date of issue: 2025-06-27 Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Metal Samples' MS2801L CorrTran RS485 LPR transmitter measures general corrosion, localized corrosion (pitting), and conductance, and transmits that information to operators via RS485 protocol in real time.

The CorrTran MV works with Metal Samples three-electrode CorrTran style probes and electrodes. Probes are available in a variety of mounting types and materials to suit the applicable type of installation.

Refer to Certificate Annex for full Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)Issue 1

This issue introduces the following changes:

- 1. Remove Zener Diodes ZD13//ZD14 and replace resistors R52 and R53 from 50R to 0R on ET2905 Measurement board (+1.25V).
- 2. Remove Zener Diodes ZD15//ZD16 and replace resistors R54 and R55 from 50R to 0R on ET2905 Measurement board (+2.5V).
- 3. Add Alternate Flameproof enclosure.

Annex:

Certificate Annex IECEx CML 23.0042X Issue 1.pdf

IECEx CML 23.0042X, Issue 1 Annexe to:

MS2801L CorrTran MV RS-485 LPR Transmitter **Apparatus:**

Applicant: **Metal Samples Company**

(a Division of Alabama Specialty Products Inc)



Description

Metal Samples' MS2801L CorrTran RS485 LPR transmitter measures general corrosion, localized corrosion (pitting), and conductance, and transmits that information to operators via RS485 protocol in real time.

The CorrTran MV works with Metal Samples three-electrode CorrTran style probes and electrodes. Probes are available in a variety of mounting types and materials to suit the applicable type of installation.

Um - 30 V

Probe connection:

Uo = 8.6 V

Io = 0.038 A

Po = 0.083 W

Ci = 0

Li = 0

The model number MS2801L-XX-YY is defined as:

- i. First XX →

 - 00/No digits → Direct Mount
 XX → Remote Sensor cable length in Feet
- ii. Second YY →
 - 1. 00 / No digits Aluminum enclosure.
 - 2. 01 Stainless Steel Enclosure.

The electronics are housed within a flameproof enclosure (refer to the table below for possible enclosures that are suitable) with an IS interface to limit the voltage, current and power to the probe which is situated in the hazardous environment.

Component		Certificate Numbers
Adalet:		IECEx UL 08.0005U
XIHDCX2 / XIHXDCX2	XIHLDCX	
XIHMFCX2 / XIHXMFCX2	XIHMDGCX	
XIHMMCX2 / XIHXMMCX2 / XIHMMCX	XIHLDGCX	
XIHMDCX	XIHNSFCX	
XIHLFCX	XIHNSDCX	
	XIHNSFGCX	
IME:		IECEx SIR 08.0025U
8092TM-XX		
8092AM-XX		
ASPI:		IECEx ETL 24.0006U
MS2701L		
MS2801L		







Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 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.
- ii. The manufacturer shall provide the end-user copies of user manual/instructions for applicable Ex-Components used in the construction of the equipment.

Specific Conditions of Use

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

- i. The MS2801L CorrTran MV RS-485 LPR Transmitter shall only be powered from a supply with a maximum output voltage of 30V and which complies with one of the following:
 - Is a SELV or PELV system.
 - A safety isolating transformer complying with the requirements of IEC 61558-2-6 or technically equivalent standard.
 - Apparatus complying with the IEC 60950 series, IEC 61010-1, or a technically equivalent standard.
 - Fed directly from cells or batteries.
- ii. For all versions of the enclosure that are 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.
- iii. The MS2801L CorrTran MV RS-485 LPR Transmitter has non-metallic parts incorporated in the enclosure of this equipment which may generate an ignition-capable level of electrostatic charge, under certain extreme circumstances. 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.
- iv. The MS2801L CorrTran MV RS-485 LPR Transmitter is not capable of withstanding the 500V insulation test required by Clause 6.3.12 of IEC 60079-11. This shall be taken into account when installing the equipment.
- v. Only sensors that are classified as simple apparatus can be used with this equipment.
- vi. No modification or repair shall be made to the flame paths. Consult the manufacturer.
- vii. For enclosure types ET3047AL and ET3047SS the enclosure set screws shall be tightened to 0.45-0.56 Nm.







Components covered by Ex Certificates issued to older editions of Standards

None



