



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

Certificate No.: IECEx EMT 16.0003X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2017-02-06\)](#)
Date of Issue: **2017-02-06** [Issue No. 0 \(2016-06-13\)](#)

Applicant: **Status Instruments**
Status Business Park,
Gannaway Lane, Tewkesbury,
Gloucestershire,
GL20 8FD
United Kingdom

Equipment: **SEM210X & SEM310X temperature transmitter**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC T4 Ga Ex ia IIIC T135 Da

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

Stephen Winsor

Position:

Certification 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:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire
United Kingdom





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Manufacturer: **Status Instruments**
Status Business Park,
Gannaway Lane, Tewkesbury,
Gloucestershire,
GL20 8FD
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/EMT/ExTR16.0003/00](#) [GB/EMT/ExTR16.0003/01](#)

Quality Assessment Report:

[GB/TRC/QAR10.0001/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The SEM210X and the SEM310X are intrinsically safe field mounted temperature transmitters. The sensors transmit temperature data remotely over a 4 – 20 mA current loop. The equipment is completely encapsulated except for the intrinsically safe I/O terminals and the connector to an external USB interface. The only difference between the two models is that the SEM310X features additional components to enable HART communications.

When operating in the field, the equipment is to be powered only by an intrinsically safe supply.

When being configured in the safe area there is a connection via the USB Configurator accessory (the subject of a separate IECEx certification - IECEx EMT 16.0013X).

CONDITIONS OF CERTIFICATION: YES as shown below:

1. For gas applications, the SEM210X and SEM310X temperature transmitters must be mounted in an IECEx approved enclosure rated for IP54 and located in an area where the enclosure will not be subject to impact or friction
2. For dust applications, the SEM210X and SEM310X temperature transmitters must be mounted in a suitably IECEx certified enclosure appropriate for the zone of end use.
3. The ambient temperature range of the enclosure will limit the permitted ambient range of the overall equipment. Refer to the IECEx certificate for the enclosure.
4. Only suitable for connection to thermocouples, RTD temperature sensors or slide wire resistance devices. They shall meet the requirements for simple apparatus as per IEC 60079-11 clause 5.7 and shall meet the dielectric withstanding requirements of IEC 60079-11 clause 6.3.13.



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

Removal of FM details from Label Drawings.

Annex:

[Annex to IECEx EMT 16.0003X issue 1.pdf](#)



Element Materials Technology,
 Unit 1, Pendle Place,
 Skelmersdale,
 West Lancashire, WN8 9PN,
 United Kingdom

Annex to IECEx Certificate of Conformity

IECEx EMT 16.0003X issue No.:1

Manufacturer's Documents

Title:	Drawing No.:	Rev. Level:	Date:
SEM310X User Guide	D2580 (4 sheets)	01-01	2016-09
SEM310X Bill Of Materials	S5049 (5 sheets)	01-05	2016-04-06
SEM210X:			
SEM210X User Guide	D2578 (4 sheets)	01-01	2016-09
SEM210X Bill Of Materials	S5048 (5 sheets)	01-05	2016-04-06
Both Models:			
SEM310 MKII SM Assembly Certification Drawing	S5095	01-04	2016-03-02
SEM310 MKII Comfig Board PCB SM Assy	S5106	01-01	2016-01-21
SEM310 MKII Config Board PCB Sub Assy	S5107	01-01	2016-01-21
CN5327 SEM310 Series Topcap Sub Assembly Certification Drawing	S5100-VAR (2 sheets)	01	2015-10-10
SEM310/210 MKII General Assembly Certification Drawing	S5101 (2 sheets)	01-03	2016-11-18
CN5327 SEM310X/210X MKII Wiring Label	S5109	01-01	2016-03-03
SEM310/210 MKII Config Board PCB Drawing	S5105	01-01	2016-01-21
SEM210X_SEM310X Config Interface Bill Of Materials	S5074	01-02	2016-05-05
SEM310/210 MKII Config Board Circuit Diagram	S5104	01-01	2016-01-21
SEM310/SEM210 MKII Certification Circuit Diagram	S5110 (2 sheets)	01-01	2016-03-10
SEM310/210 MKII PCB Certification Drawing	S5079	05-01	2016-03-02
SEM310/210 MKII Sub Assembly Certification Drawing	S5096	01-02	2016-01-27
Sem210 MKII SM Assembly Certification Drawing	S5099	01-04	2016-03-02
SEM210X SEM310X Drawing List (Certification)	S5050	01-02	2016-02-16