



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 CML 17.0028X

Issue No: 2

Certificate history:

Issue No. 2 (2018-10-11)

Issue No. 1 (2017-09-13)

Issue No. 0 (2017-07-14)

Status: **Current**

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Date of Issue: **2018-10-11**

Applicant: **SPM Instrument AB**
Finningevägen 71,
645 42 Strängnäs
Sweden

Equipment: **Intellinova Parallel En Ex**

Optional accessory:

Type of Protection: **Restricted Breathing "nR", Intrinsic Safety "[ia]", Dust Ignition "tc"**

Marking:

Ex nR [ia Ga] IIC T4 Gc

Ex tc [ia Da] IIIC T85°C Dc

Tamb = -20°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2018-10-11

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](http://www.iecex.com).

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **SPM Instrument AB**
Finningevägen 71,
645 42 Strängnäs
Sweden

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 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/CML/ExTR17.0043/00](#)

[GB/CML/ExTR17.0166/00](#)

[GB/CML/ExTR18.0207/00](#)

Quality Assessment Report:

[NO/NEM/QAR09.0004/05](#)

[NO/NEM/QAR09.0004/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Intellinova Parallel En Ex is a measuring unit that is designed for the continuous monitoring of the condition of machines.

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.



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

Variation 1

This variation introduces the following modifications:

1. To permit the use of any certified cable gland

Variation 2

This variation introduces the following modifications:

1. To permit the original 90595 WLAN Modem (type WLg-Link V3) to be replaced by a non-specific WLAN modem with an input power of 10W or less. The modem is to have maximum transmitter power of 100mW.

Annex:

[IECEX CML 17.0028X Iss. 2 Certificate Annex.pdf](#)

Annexe to: IECEx CML 17.0028X Iss. 2
Applicant: SPM Instruments AB
Apparatus: Intellinova Parallel En Ex



Product Description

The Intellinova Parallel En Ex is a measuring unit that is designed for the continuous monitoring of the condition of machines.

The Intellinova Parallel En Ex comprises a restricted breathing and a dust tight enclosure being either:

18012 Enclosure (Material 304)	KEL 9405.600 (600 x 600 x 210) with silicone seal	PTB 02ATEX1082U Ex e IIC Gb Ex tD IIIC Db P66 Alternatively Ex eb IIC Ex tb IIIC IP66 Tamb -30 °C to +80 °C	IECEX PTB 09.0035U Ex e IIC Gb Ex tb IIIC Db IP66 Alternatively Ex eb IIC Ex tb IIIC IP66 Tamb -30 °C to +80 °C
18029 Enclosure (Material 319L)	KEL 9405.500 (600 x 600 x 210) with silicone seal	PTB 02ATEX1082U (see above)	IECEX PTB 09.0035U (see above)

The enclosure is intended for wall mounting but may be orientated in either a vertical or horizontal orientation.

These can contain approved items of electrical equipment:

Models	No.(Max)	No. (Min)
90632 Power Supply 24Vdc 60W	1	1
90477 Power Supply 12Vdc 18W	1	0
INCEN16 Measuring Instrument	1	1
17310 Ex Interface	16	0
15805 Key Phasor Interface	8	0
17999 Key Phasor Interface	4	0
83234 AI Ex Interface	12	0
83180 DIO Ex Interface	4	0
83264 Ethernet Switch Fiber Optic	1	0
83263 Ethernet Switch	1	0
90432 Signalling Relay	1	0
Ex NAMUR Signal Amplifier	8	0

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Models	No.(Max)	No. (Min)
90595 WLAN Modem (maximum input power 10W and maximum transmitter power of 100mW)	1	0
90598 WLAN Antenna (external to enclosure)	1	0

Where the intrinsically safe items are covered by the following certificates:

Equipment	Type	Code	ATEX	IECEX
17310 Ex Interface	1731x	[Ex ia Ga] IIC [Ex ia Da] IIIC Ex nA [ia Ga] IIC T4 Gc	CML 14ATEX2077X and CML 14ATEX4078X	IECEX CML 14.0031X
83234 AI Ex Interface	MTL 7787+	[Ex ia Ga] IIC Ex ia Da] IIIC	BAS01ATEX7217	IECEXBAS040025
83180 DIO Ex Interface	MTL 7787+	[Ex ia Ga] IIC Ex ia Da] IIIC	BAS01ATEX7217	IECEXBAS040025
93538 Signalling Relay	MACX MCR-EX-SL- NAM-2T	[Ex ia Ga] IIC [Ex ia Da] IIIC Ex nA IIC T4 Gc	IBExU12ATEX1169	IECEX IBE 12.018X

The enclosure is intended for wall mounting but may be orientated in either a vertical or horizontal orientation.

The entry into the enclosure is to be made via suitably certified cable glands.

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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The equipment shall be designed in accordance with general electrical safety standards, e.g. EN 60950 or EN 61010-1
- iii. The installation of intrinsically safe apparatus shall be in accordance with EN 60079-11 or EN 60079-14.
- iv. The enclosure may be fitted with any suitably certified cable glands meeting the requirements of IP66.
 - When used in an ATEX context, these glands must be ATEX certified.
 - The correct sized cable is to be fitted.
 - This arrangement must be factory fitted and a routine restricted breathing test is to be performed in accordance with IEC 60079-15:2010 section 23.2.3.
 - In the event that a cable gland is not fitted, the aperture must be filled with an appropriate blanking plug, prior to testing.



Specific Conditions of Use (Special Conditions)

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

- i. The equipment shall not be opened, maintained or serviced in an area where an explosive atmosphere may be present.
- ii. It shall be ensured that the door is correctly tightened when closed.
- iii. Under certain extreme circumstances, the non-metallic parts i.e. the external antenna, 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. In addition, the equipment shall only be cleaned with a damp cloth.