



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 IMQ 13.0002X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 2 [Issue 1 \(2019-08-02\)](#)
[Issue 0 \(2013-05-17\)](#)
Date of Issue: 2020-03-03
Applicant: **ADOS S.r.l.**
Via Lazio, 25
20090 Buccinasco (MI)
Italy
Equipment: **Load cells**
Optional accessory: Series AX-*
Type of Protection: **Intrinsic safety "is"**
Marking: Ex ia IIC T5 Ga
Ex ia IIIC T120°C Da

Approved for issue on behalf of the IECEx
Certification Body:

Mr. Mauro CASARI

Position:

IMQ ExCB 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 www.iecex.com or use of this QR Code.



Certificate issued by:

Istituto Italiano del Marchio di Qualità S.p.A
Via Quintiliano 43
20138 Milano
Italy





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Manufacturer: **ADOS S.r.l.**
Via Lazio, 25
20090 Buccinasco (MI)
Italy

Additional
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 60079-0:2011 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 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:

[IT/IMQ/EXTR13.0002/02](#)

Quality Assessment Report:

[IT/IMQ/QAR13.0002/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Series AX load cells are analogue devices used in systems for measuring weight and/or force in potentially explosive areas, with the presence of combustible gases and/or powders.

They are essentially composed of a steel body - stainless steel (AISI 630 / AISI 304 / AISI 316) or hardened steel, steels which do not contain more than 7.5% magnesium + titanium + zirconium, to which the strain gauges are attached – and a connection system made of either an inseparable shielded cable with a maximum length of 50 m or by way of a metal connector integral with the load cell body.

All load cells are protected by welded metal elements or by chemical sealing, and the degree of protection can be IP66 / IP67 / IP69 ** according to IEC / EN 60529 (IP69K according to DIN 40050-9).

The protection level of the load cell is guaranteed by chemical and/or mechanical sealing.

There are various methods for sealing the load cells:

- coating and/or encapsulating the electrical part with epoxy, silicone rubber or polyurethane resins
- micro-TIG welding of metal parts
- a combination of both methods

** The degree of protection and the ambient temperature may vary depending on the type of cable gland/connector

KEY CODE: AX-(1) (2)

Model:

SBA÷Z, OSX, ESX: shear beam cells.
SDT: double shear beam cells.

- (1) SFA: flange cells.
STA÷Z, TSX, TCA÷Z, TRR: tension cells
CCX, CEX, CFX/CRX, SCA÷Z: compression cells.
SPT: pin cells.
SRA÷Z: torsion cells.

- (2) Capacity

SPECIFIC CONDITIONS OF USE: YES as shown below:

Above referred equipment shall be supplied by associated apparatus certified according to IEC 60079-0 and IEC 60079-11, with compatible electrical characteristics and linear supply.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

- adding of new casting compound materials
- new IP degree according to IEC 60529: IP66/67/69
- Standards update

Issue 2:

- Corrections of an editorial mistake on key code
- Explanation regarding IP69K