



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

Certificate No.:	<b>IECEx PRE 19.0008</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	<a href="#">Issue 1 (2020-11-16)</a> <a href="#">Issue 0 (2019-05-02)</a>
Date of Issue:	2023-10-23		
Applicant:	<b>Acoem AB</b> Östergårdsgatan 9 SE-431 53 Mölndal <b>Sweden</b>		
Equipment:	<b>Ex Shaft alignment tool M4 Ex, S4 Ex</b>		
Optional accessory:			
Type of Protection:	<b>Intrinsic safety "ic", optical radiation "op is"</b>		
Marking:	Ex ic op is IIC T4 Gc 0°C ≤ Ta ≤ 50 °C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ståle Sandstad**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DNV Product Assurance AS**  
Veritasveien 1  
1363 Høvik  
Norway





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Manufacturer: **Acoem AB**  
Östergårdsgatan 9  
Mölndal  
Sweden

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

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

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:

[NO/PRE/ExTR19.0007/00](#)

[NO/PRE/ExTR19.0007/01](#)

[NO/PRE/ExTR19.0007/02](#)

Quality Assessment Report:

[NO/NEM/QAR14.0010/05](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The **EX-shaft alignment system** is a portable system, used to align the shafts between two rotating machines. A system consists of a display unit (DU), separately certified (not covered by this certificate), two TD-units, types M4 and S4 and mechanical fixtures used to mount the TD-units on the shafts. The TD-units, covered by this certificate, is powered by rechargeable Li-Ion batteries and includes 650 nm class II diode laser, laser power < 1 mW and Class I Bluetooth transmitter.

The certified EX-shaft alignment tool is complete in the portable transport case, fixtures and charger.

The battery charging is to be done, with the designated USB charger, outside the hazardous area.

The instrument is not to be active on during charging

## **Type designation**

M4, Model M4 Ex

S4, Model S4 Ex

## **Electrical Data**

Battery charging USB 5.0 V, 0.5 A

## **Ambient temperature:**

0°C to +50°C

**SPECIFIC CONDITIONS OF USE: NO**



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

Change of battery cell, changes of components, documents update.