



Test report

for Ex spark gaps, type EX ISG H...

General information	
Contact	
Street	
Postcode/town	
Telephone	
E-mail	
System	
System part (type, item no.)	
Test report no.	
Test type	<p>If the Ex spark gap is used within the scope of the specified technical data, it does not require maintenance. An inspection is generally made within the testing intervals set for the system by the operator.</p> <p><input type="checkbox"/> Inspection according to GefStoffV (Hazardous Substances Ordinance) §7/BetrSichV (Industrial Safety Regulation) §§15 and 16, and IEC/EN 60079-17 – max. every 3 years</p> <p><input type="checkbox"/> Inspection according to IEC/EN 62305-3 depending on the lightning protection class (e.g. every 2 years for lightning protection class 2)</p>
Notes	

Customer details/client	
Company	
Contact	
Street	
Postcode/town	
Telephone	
E-mail	

Report created by	
Company	
Contact	
Street	
Postcode/town	
Telephone	
E-mail	



1. Visual inspection			
<input type="checkbox"/>	Inspection of the housing	OK	Note
	Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Dirty	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Corroded	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Free from mechanical stress	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/>	Inspection of the connection cables		
	Porous	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/>	Inspection of the electrical contacts		
	Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Corroded	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Loosened	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Contact safety ensured	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Connections protected against self-loosening	<input type="checkbox"/> Yes <input type="checkbox"/> No	

2. Measurement test

The measurement test is performed by a person qualified for this purpose according to BetrSichV (Industrial Safety Regulation) and can be carried out with the spark gap removed and outside the Ex zone. For this purpose, however, an appropriate work permit in accordance with TRBS 1112-1 is required from the operator. For recommended testing devices, see section 4.

<input type="checkbox"/>	Inspection of Ex spark gaps	Displayed value	OK	Note
	Measurement of the insulation resistance (target value $\geq 500 \text{ k}\Omega$ @ 250 V DC)	_____ k Ω	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Measurement of the static response voltage (measured value between 1,000V DC–2,500 V DC)	_____ V DC	<input type="checkbox"/> Yes <input type="checkbox"/> No	

3. Explosion protection

The inspection of the equipment comprises:

- the mechanical connection of the Ex spark gaps and
- the intended use of the equipment according to the installation conditions (declaration of conformity or EU type examination certificate)

<input type="checkbox"/>	Inspection of Ex spark gaps	Installation location	OK	Note
	Installation location of the spark gap? Is the Ex spark gap permitted to be operated there according to its Ex labelling? ATEX approval BVS 18 ATEX E 041 X Ex labelling according to EN 60079-0 and EN 60079-1: Gases II 2 G Ex db IIC T6 Gb Ex labelling according to EN 60079-0 and EN 60079-31: Dusts II 2 D Ec tb IIIC T80 °C Db IECEx approval IECEx BVS 18.0032X Ex labelling according to IEC 60079-0 and IEC 60079-1:Gases Ex db IIC T6 Gb Ex labelling according to IEC 60079-0 and IEC 60079-31: Dusts Ex tb IIIC Db	_____ <input type="checkbox"/> Ex zone 1 <input type="checkbox"/> Ex zone 2 <input type="checkbox"/> Ex zone 21 <input type="checkbox"/> Ex zone 22 <input type="checkbox"/> Outside the Ex area	<input type="checkbox"/> Yes <input type="checkbox"/> No	



4. Measurement and testing devices

The following testing devices are recommended for measurements:

Insulation testing	
<input type="checkbox"/>	Gossen Metrawass Metriso (up to 1,000 V)
<input type="checkbox"/>	Fluke multifunction tester 1653 (up to 1,000 V)
<input type="checkbox"/>	Gossen Metrawatt Profitest 0100S (500 V)
<input type="checkbox"/>	Müller und Ziegler, Müzitester (up to 500 V)
<input type="checkbox"/>	Megger MIT 2500
<input type="checkbox"/>	_____

Testing of response voltage	
<input type="checkbox"/>	Megger MIT 2500
<input type="checkbox"/>	_____

5. Notes for the system operator

The operator must ensure that any defects found are rectified.

The inspection service must be notified immediately of any structural changes.

Next recommended inspection date*:	
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* Provided that no other inspections are required by applicable standards, regulations or laws.

City/town

Date

Signature

Company/stamp
