



# 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.: **IECEx NEP 26.0042X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2026-08-04

Applicant: **SHANGHAI CHENZHU INSTRUMENT CO., LTD.**  
Floor 7~8, Building 6, No. 201, Minyi Road, Songjiang District,  
Shanghai 201612  
**China**

Equipment: **Ethernet-APL/SPE Field Switch Model GSNX-801EX**

Optional accessory:

Type of Protection: **Ex ec, ia**

Marking: **Ex ec [ia Ga] II C T4 Gc, [Ex ia Ma] I , [Ex ia Ga] II C, [Ex ia Da] IIIC**  
**Ta: -40°C~+70°C**

Approved for issue on behalf of the IECEx  
Certification Body:

**Guo Aihua**

Position:

**General Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Shanghai Inspection and Testing Institute of Instruments  
and Automatic Systems Co., Ltd. (SITIIS)/  
National Supervision and Inspection Center for Explosion  
Protection and Safety of Instrumentation (NEPSI)  
103 Cao Bao Road  
Shanghai 200233  
China**



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Worldwide Access



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Shanghai 201612  
**China**

Manufacturing locations: **SHANGHAI CHENZHU INSTRUMENT CO., LTD.**  
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**China**

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 60079-11:2023** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:7.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

**IEC TS 60079-47:2021** Explosive atmospheres – Part 47: Equipment protection by 2-wire intrinsically safe Ethernet concept (2-WISE)  
Edition:1.0

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:

**CN/NEP/ExTR26.0047/00**

Quality Assessment Report:

**GB/SIR/QAR20.0004/05**



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The GSNX-801EX is an Ethernet-APL/SPE field switch equipped with 24 intrinsically safe powered spur ports, which support simultaneous power supply and data communication. These spur ports comply with the Ethernet APL power profile SPAA for Ex ia protection, conforming to the 2-WISE (IEC TS 60079-47) standard. Each spur port is designed with independent electrical isolation for stable and safe operation. This product is composed of three GSNX-801aEX modules and a frame, which includes a power supply board, a communication board and a metal enclosure. The frame adopts explosion protection type ec; the explosion protection types of GSNX-801aEX components are Ex ia and Ex ec.

Electrical parameters:

Maximum voltage:  $U_m=60V$

Intrinsic safety parameters:

For all channels, S1~S8 (S, -, + terminals)

$U_o=17.5V$ ,  $I_o=380mA$ ,  $P_o=1.65W$ ,  $C_i=negligible$ ,  $L_i=negligible$

$C_o$  and  $L_o$  as follows:

II C:  $C_o=0.339\mu F$ ,  $L_o=0.245mH$

II B/IIIC:  $C_o=1.97\mu F$ ,  $L_o=0.983mH$

I :  $C_o=11.2\mu F$ ,  $L_o=3.23mH$

## SPECIFIC CONDITIONS OF USE: YES as shown below:

For EPL Gc using:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
3. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
4. Must follow the warnings: "DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS" and "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT".