

Date: (for printed version)

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Certificate issued by:

SGS United Kingdom Ltd Rockhead Business Park Staden Lane **Buxton, Derbyshire SK17 9RZ United Kingdom**

11/1/2024



IECEx Certificate of Conformity

Certificate No.: Date of issue:	IECEx SGS 23.0078X 2024-01-11	Page 2 of 3 Issue No: 0
Manufacturer:	Crowcon Detection Instruments (Beijing) Ltd. Floor 3, Building 7, No.156, 4th Jinghai Rd, BDA Beijing City 101111 China	
Manufacturing locations:	Crowcon Detection Instruments (Beijing) Ltd. Floor 3, Building 7, No.156, 4th Jinghai Rd, BDA Beijing City 101111 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-28:2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

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:

GB/SGS/ExTR23.0123/00

Quality Assessment Report:

DE/TUR/QAR16.0016/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The mini open-path laser methane gas detector L-TEK P100 uses TDLAS (Laser Spectroscopy) technology to quantitatively measure the concentration of methane in the target area by absorbing the specific wavelength.

The dimensions of the L-TEK P100 is about 138mm×49mm×34.5mm, it consists of a enclosure, one rechargeable battery packs ZP-1S3P-001 for supply power, 1 screen display, 1 buzzer for sound alarm, six multi-function button, Laser module, and PCBAs. The enclosure is composed of the front and back metal AL6061 housing covers, the upper glass cover, a transparent acrylic display window cover, six silica gel buttons. Charger connector is provided to charge the battery packs in a non-hazardous area, refer to "Specific Conditions of Use" for more information.

The circuits are designed as "Ex ib", the indicating green laser module and the detecting laser diode are designed as "Ex op is".

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Do not open when an explosive atmosphere is present. 1.
- The battery is not replaceable in hazardous areas. 2.
- 3. Do not charge the battery in hazardous location.
- 4. Maximum output voltage from charger shall not exceed 5.0V (Um).