Hanwei

Hanwei
Electronics Group Corporation

Add: No.169 Xuesong Road, National High-Tech Zone, Zhengzhou 450001, China

Tel: +86-371-67169080/70
Fax: +86-371-67169090

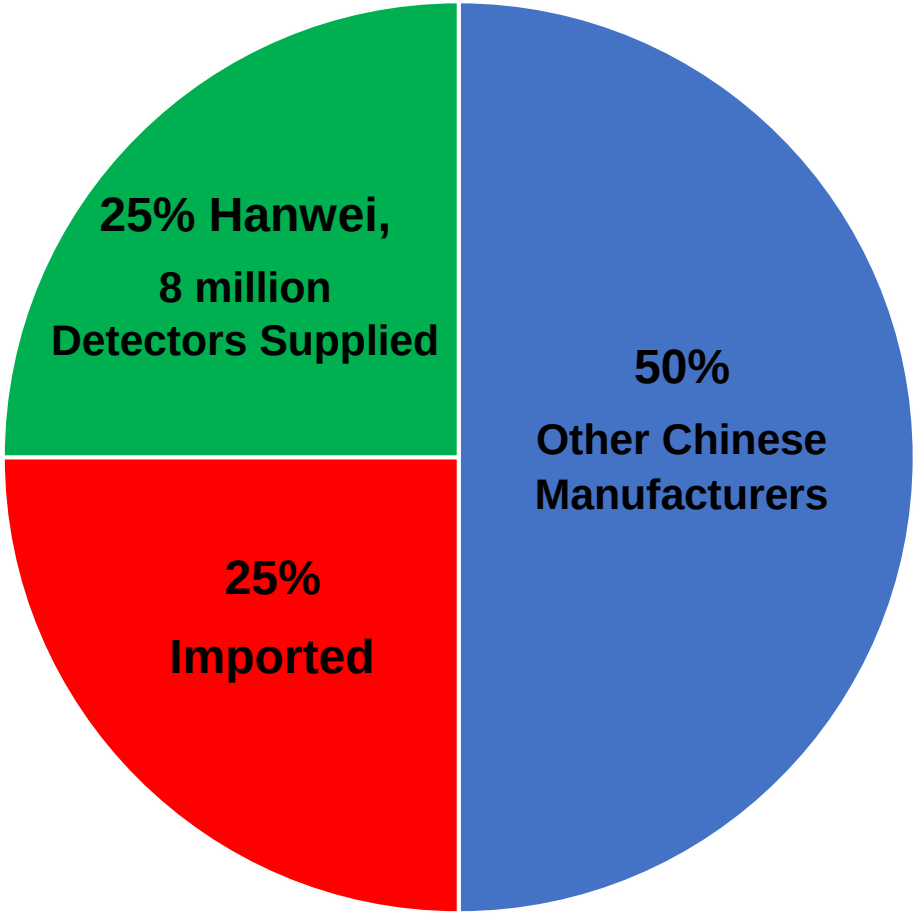
Web: www.hwsensor.com
E-mail: sales@hwsensor.com

Hanwei

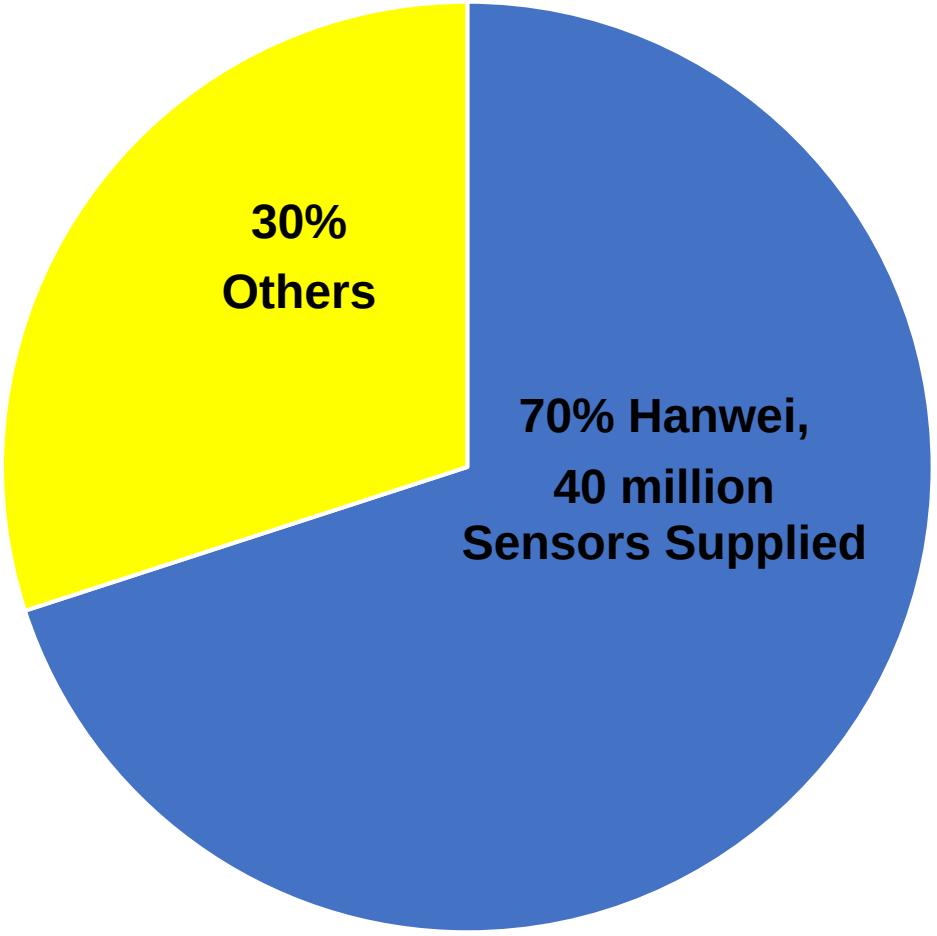
Hanwei, established in 1998, is the largest gas sensors and detectors manufacturer in China.

Hanwei is in Shenzhen Stock Exchange (No. 300007), has 2500 Employees and 360 million USD annual turnover.

2024 Detectors Market in China



2024 Sensors Market in China



Hanwei

Company overview (2 Mins):

Company Introduction (10 Mins):

Hanwei

The most important features:

- ATEX & IECEx Certifications by TÜV (Germany) , Nemko (Norway) & CSA (Canada)
- Intelligent Sensors & Detectors (Self-Test, Diagnosis, Easy Calibration)
- On-Line or Factory Training
- 2 Years Guarantee
- 10 Years After Sales Services
- IR Remote Control for Calibration & Adjustments
- IoT Solutions
- Complete Package (Portable, Fixed, Open Path, Flame Detectors & Control Panels)

Hanwei

Point Gas Detectors:

GTQ-BS03

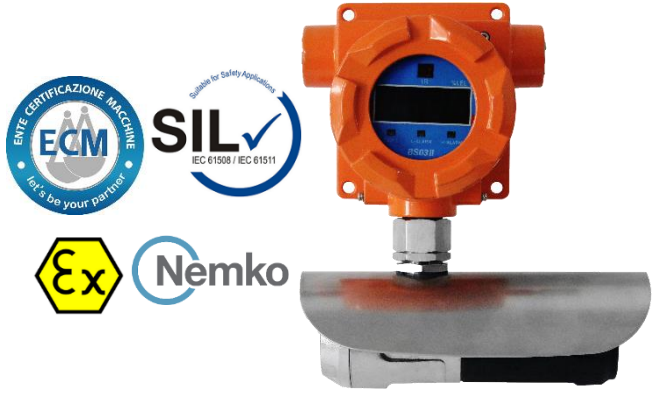
GTQ-BS03/SS

BS03

TC100N

Dual Beam IR Gas Detectors:

WD6200-IR



BS03-IR2

Hanwei

Open Path Gas Detector:

OPGD-1000

Flame Detectors:

FD10-IR3/SS

FD10-IR3

FD10- UVIR2

Hanwei

Control Panels:

KB2160

Portable Gas Detectors:

BX616

BX171

BZ100

Hanwei

Leak Detectors:

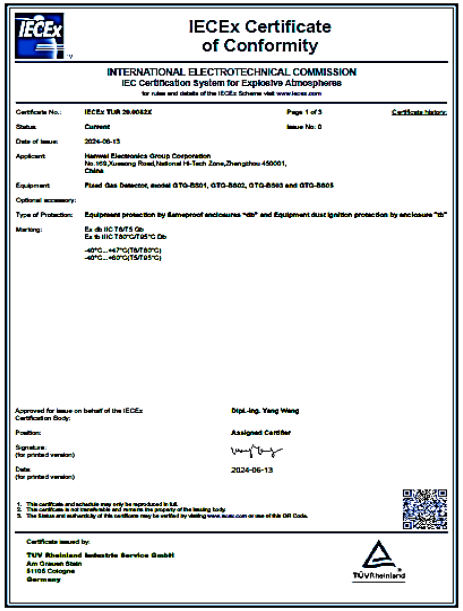
HRLD200

HRLD300

HRLD600

EGC200

Model: GTQ-BS03 (AL or SS)



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - Directive 2014/34/EU

(3) EU-Type Examination Certificate Number

TÜV 20 ATEX 8612 X Issue: 00

(4) Equipment: Fixed Gas Detector, Model name: GTQ-BS Series

(5) Manufacturer: Hanwei Electronics Group Corporation.
(6) Address: No. 169, Xuesong Road, National Hi-Tech Zone, Zhengzhou, 450001, Henan, P.R. China.

(7) This product and any acceptable variation thereto are specified in the schedule to the certificate and the documents therein referred to.

(8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies that this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8612.00/20

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 2 G Ex db IIC T6/T5 Gb
II 2 D Ex tb IIIC T80°C/T95°C Db

Cologne, 2024-06-13

0035

www.tuv.com

TÜVRheinland®
Precisely Right.

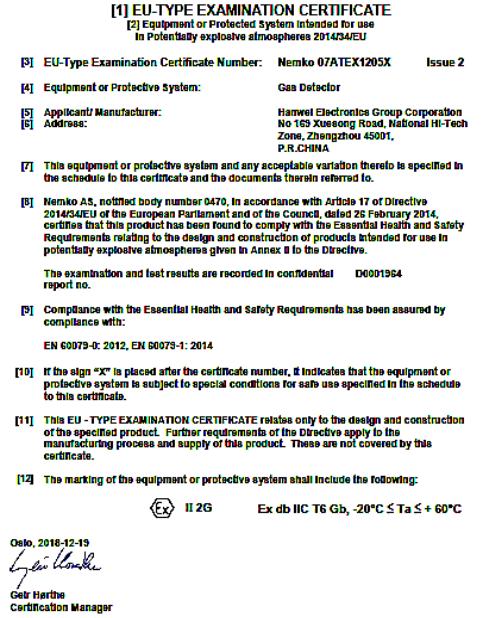
Features:

High measurement accuracy, stable performance and long service life by MCU technology, combined with sophisticated SMT manufacturing process, this detector has good repeatability, high accuracy and long lifespan.

Specifications:

Measuring Gases	Combustible, Toxic, O2, VOC	**Power Supply**	24VDC ±6V, ≤2.5W
Response Time (T_{90})	LEL ≤ 15S, Other ≤ 30S	**Electrical Output**	4-20mA or RS485 Power BUS
Ex Grade	Ex db IIC T6/T5 Gb Ex tb IIIC T80"C/T95"C Db	**Relays**	Two Programmable for Alarm, One for Fault
Operating Temp.	LEL: -40 to 70°C / Others: -20 to 50°C	**Display**	Color Backlight LCD
Humidity	≤ 95%RH (no condensation)	**Status LEDs**	Fault: Yellow, Alarm: Red, Normal: Green
Ingress Protection	IP67	**Operation by**	IR remote control

Model: BS03 & BS3-IR2



[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System intended for use in Potentially explosive atmospheres 2014/34/EU

[3] EU-Type Examination Certificate Number: Nemko 07ATEX1205X Issue 2

[4] Equipment or Protective System: Gas Detector

[5] Applicant/ Manufacturer: Hanwei Electronics Group Corporation
[6] Address: No 169 Xuesong Road, National Hi-Tech Zone, Zhengzhou 45001, P.R.CHINA

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Nemko AS, notified body number 0470, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. D0001964

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012, EN 60079-1: 2014

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

Ex II 2G Ex db IIC T6 Gb, -20°C ≤ Ta ≤ + 60°C

Oslo, 2018-12-19

Geir Hanthe
Certification Manager

Features:

High measurement accuracy, stable performance and long service life by MCU technology, combined with sophisticated SMT manufacturing process, this detector has good repeatability, high accuracy and long lifespan.

Specifications:

Measuring Gases	Combustible, Toxic, O2, VOC	**Power Supply**	24VDC ±6V, ≤2.5W
Response Time (T_{90})	PID & IR ≤ 10S, Other ≤ 30S	**Electrical Output**	4-20mA / RS485
Ex Grade	Ex db IIC T6 Gb	**Relays**	Two Programmable for Alarm
Operating Temp.	LEL: -40 to 70°C / Others: -20 to 50°C	**Display**	4-Digit LED
Humidity	≤ 95%RH (no condensation)	**Status LEDs**	Fault: Yellow, Alarm: Red, Normal: Green
Ingress Protection	IP65	**Operation by**	IR remote control

Model: WD6200IRII

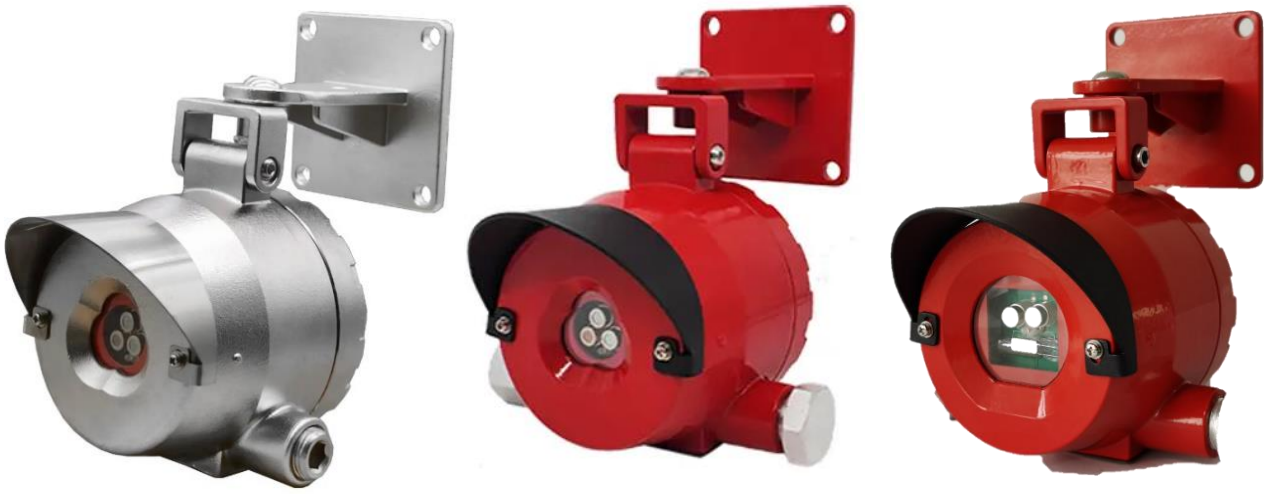
Features:

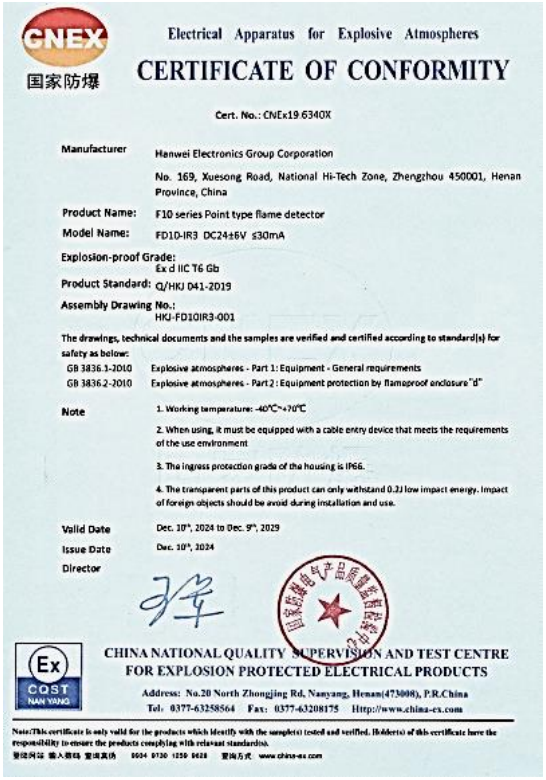
It features a double beam IR sensor that effectively reduce the zero drift to the minimum, and extends the maintenance intervals. The detector enjoys better gas selectivity, stability and longer life span.

Specifications:

Measuring Gases	Combustible	**Power Supply**	24VDC ±6V, ≤6.5W
Response Time (T_{90})	≤ 30S	**Electrical Output**	4-20mA / HART
Ex Grade	Ex d IIC T6 Gb	**Relays**	Two Programmable for Alarm, One for Fault
Operating Temp.	-40 to 70°C	**Display**	Color Backlight LCD
Humidity	≤ 95%RH (no condensation)	**Status LEDs**	Fault: Yellow, Alarm: Red, Normal: Green
Ingress Protection	IP66 / IP67	**Operation by**	IR remote control or Magnetic Bar

Model: FD10-IR3 or UVIR2





Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cert. No.: CNEx19.6340X

Manufacturer: Hanwei Electronics Group Corporation
No. 169, Xuesong Road, National Hi-Tech Zone, Zhengzhou 450001, Henan Province, China

Product Name: F10 series Point type flame detector

Model Name: FD10-IR3 DC24±6V ≤30mA

Explosion-proof Grade: Ex d IIC T6 Gb

Product Standard: Q/HKJ 041-2019

Assembly Drawing No.: HKJ-FD10IR3-001

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010 Explosive atmospheres - Part 1: Equipment - General requirements

GB 3836.2-2010 Explosive atmospheres - Part 2: Equipment protection by flameproof enclosure "d"

Note

1. Working temperature: -40℃~+70℃
2. When using, it must be equipped with a cable entry device that meets the requirements of the use environment
3. The ingress protection grade of the housing is IP66.
4. The transparent parts of this product can only withstand 0.2J low impact energy. Impact of foreign objects should be avoid during installation and use.

Valid Date: Dec. 10th, 2024 to Dec. 9th, 2029

Issue Date: Dec. 10th, 2024

Director

CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China

Tel: 0377-63258564 Fax: 0377-63208175 Http://www.china-ex.com

Note:This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

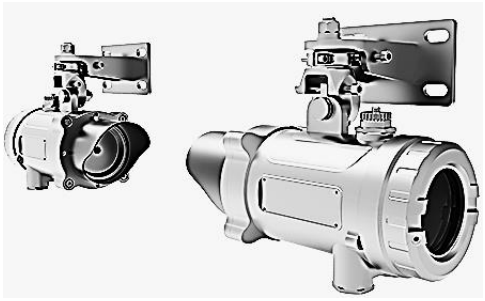
Features:

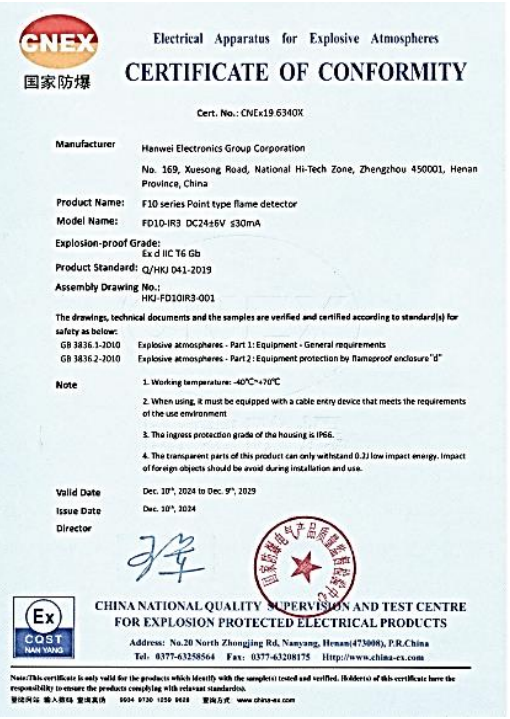
FD10 series flame detectors have high-performance sensors and MCU technology, combining with sophisticated SMT process, the detectors are with advantages of good repeatability, anti-interference and easy operation.

Specifications:

Field of view	100° (IR) - 120° (UV)	**Power Supply**	24VDC ±6V, ≤30 mA
Response Time	IR3 ≤ 10S - UV/IR2 ≤ 5S	**Outputs**	Fire/Fault Relays, 4-20mA / HART
Spectral Response	IR3: 3.8μm, 4.3μm, 5.0μm UV/IR2: 185~260nm, 4.3μm, 5.0μm	**Ex Grade**	Ex d IIC T6 Gb / Ex tD A21
Operating Temp.	IR3: -25 to 70°C - UV/IR2: -20 to 60°C	**Display**	LED Indicators
Humidity	≤ 95%RH (no condensation)	**Detection Distance**	50 m
Ingress Protection	IP66	**Operation by**	Magnetic bar for sensitivity (4 levels)

Model: OPGD-1000





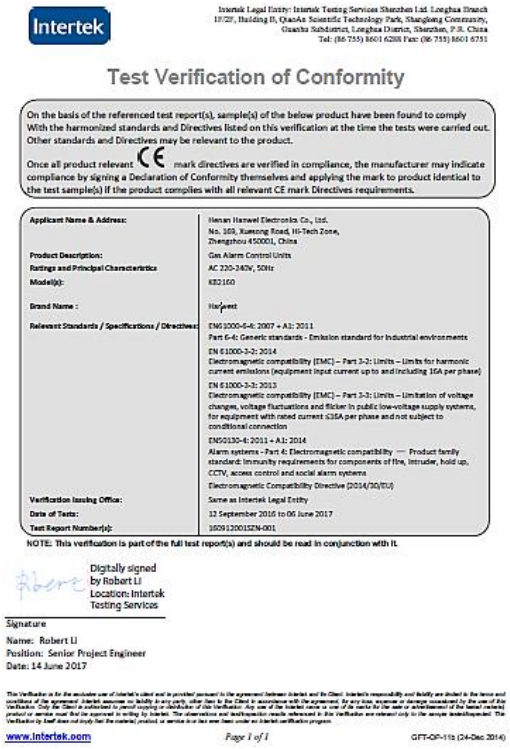
Features:

The product design complies with the SIL II standard requirement. With high-performance large-surface photosensitive detector and micro-control technology, combined with sophisticated SMD process, it has good repeatability, temperature and humidity characteristics, and has the advantages of long service life and convenient operation.

Specifications:

Measuring Gas	CH4 (0-100% LEL.m)	**Power Supply**	24VDC ±6V
Response Time (T_{90})	≤ 3S	**Electrical Output**	4-20mA / HART (Optional)
Ex Grade	Ex d IIC T6Gb Ex tD A21	**Relays**	Two Programmable for Alarm, One for Fault
Operating Temp.	-40 to 70°C	**Display**	Color Backlight LCD
Protection Distance	≤ 100 m	**Status LEDs**	Fault: Yellow, Alarm: Red, Normal: Green
Ingress Protection	IP66 / IP67	**Operation by**	Magnetic Bar

Model: KB2160



Intertek

Intertek Legal Entity: Intertek Testing Services Shenzhen Ltd. Longhua Branch
10/2F, Building B, QiaoAn Scientific Technology Park, Shangkeng Community,
Guanhu Subdistrict, Longhua District, Shenzhen, P.R. China
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751

Test Verification of Conformity

On the basis of the referenced test report(s), sample(s) of the below product have been found to comply With the harmonized standards and Directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product.

Once all product relevant CE mark directives are verified in compliance, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to product identical to the test sample(s) if the product complies with all relevant CE mark Directives requirements.

Applicant Name & Address:	Henan Hanwei Electronics Co., Ltd. No. 169, Xuesong Road, Hi-Tech Zone, Zhengzhou 450001, China
Product Description:	Gas Alarm Control Units
Ratings and Principal Characteristics	AC 220-240V, 50Hz
Model(s):	KB2160
Brand Name :	Hanwei
Relevant Standards / Specifications / Directives:	EN61000-6-4: 2007 + A1: 2011 Part 6-4: Generic standards - Emission standard for industrial environments EN 61000-3-2: 2014 Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current up to and including 16A per phase) EN 61000-3-3: 2013 Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16A per phase and not subject to conditional connection EN50130-4: 2011 + A1: 2014 Alarm systems - Part 4: Electromagnetic compatibility — Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems Electromagnetic Compatibility Directive (2014/30/EU)
Verification Issuing Office:	Same as Intertek Legal Entity
Date of Tests:	12 September 2016 to 06 June 2017
Test Report Number(s):	160912001SZN-001

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

Digitally signed by Robert Li
Location: Intertek Testing Services

Signature
Name: Robert Li
Position: Senior Project Engineer
Date: 14 June 2017

www.intertek.com Page 1 of 1 GFT-OP-116 (24-Dec 2014)

Features:

KB2160 gas alarm control panel is designed for industrial use with 4~20mA communication signal to integrate all the gas detectors in different sites, to monitor the gas concentration continuously and conveniently.

Specifications:

Input	4-20 mA (3-wire)	**Operating Temp.**	-10 to 50°C
Display	Color Backlight LCD & Status LEDs	**Wall Mount Capacity**	Maximum 10 Channels
Outputs	4-20 mA / RS485 / Three Alarm Relays	**Rack Mount Capacity**	Maximum 80 Channels in 19” Cabinet
Power	220 VAC + Battery Backup	**Ingress Protection**	IP54
Alarm Method	Visual and Audible Alarm	**Consumption**	≤ 10 W
Buzzer Output	65-115dB @1meter	**Approval**	CE

Hanwei

Model: HRLD200/300/600

CNEX 国家防爆

Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cert. No.: CNEx19.5637X

Manufacturer	Hanwei Electronics Group Corporation No. 169, Xuesong Road, National Hi-Tech Zone, Zhengzhou 450001, Henan Province, China
Name of Product	Handheld Laser Methane Detector
Type of Product	HRLD600 DC3.7V
Marking	Ex ib IIB T4 Gb
Standard	Q/HKJ012-2018
Drawing No.	HKJ-HRLD600-1

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010 Explosive atmospheres - Part 1: Equipment - General requirements

GB 3836.4-2010 Explosive atmospheres - Part 4: Equipment protection by intrinsic safety "i"

Note

1. Potential electrostatic charging hazard - anti-static leather sheath shall be provided during operation.
2. This product is powered by 1 piece of 3.7V lithium battery assembly, model DF32650. Dismantle, charging or replacement of the battery is not allowed in hazardous area.
3. Laser power: 3.453mW in wavelength 521nm, 9.523mW in wavelength 1653nm.
4. IP code: IP66.

Valid Date From Nov 12, 2019 to Nov 11, 2024

Issue Date Nov 12, 2019

Director

Ex CQST NAN YANG

CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China

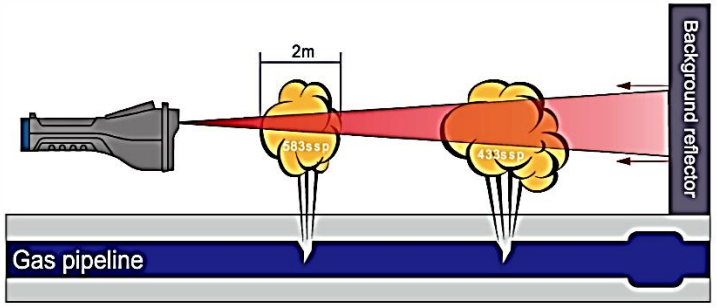
Tel: 0377-63258564 Fax: 0377-63298175 Http://www.china-ex.com

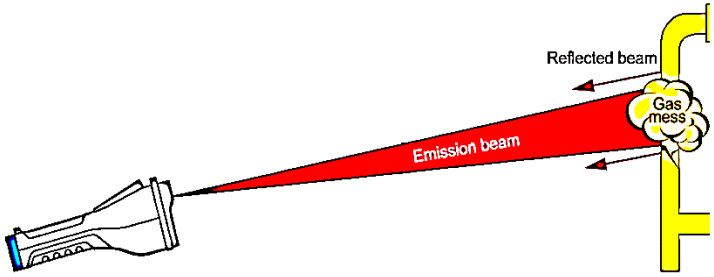
Note:This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

Features:

Handheld Laser Methane Detector is a gas pipeline inspection equipment. By adopting the world's leading laser technology and non-contact measurement, it can realize remote measurement and accurate location of the leakage point where cannot be reached by inspectors. Its specification is:

- **Detection Range:** 0-100000 ppm.m
- **Sensitivity:** 5 ppm.m
- **Selectable Units:** ppm.m, LEL.m, Vol.m
- **Response Time:** $T_{90} \leq 0.1$ S
- **Ex Grad:** Ex ib 11B T4 Gb
- **Detection Distance:** HRLD200: 50m, HRLD300: 100m, HRLD600: 150m
- **Display:** LCD Screen
- **Alarm Mode:** Audible, Visual and Vibrating Alarms
- **Power:** Rechargeable Lithium Battery
- **Ingress Protection:** IP66





Portable Gas Detectors

Model	BX616	BZ100	BX171
Type	Multi Gas Detector	Single Gas Detector	Single Gas Detector
Measuring Gases & Ranges	Combustible (0-100% LEL) H2S (0-100 ppm) CO (0-500 ppm) O2 (0-25% Vol)	H2S (0-100 ppm) CO (0-500 ppm) O2 (0-25% Vol)	H2S (0-100 ppm) CO (0-500 ppm) O2 (0-25% Vol)
Response Time	T90 ≤ 30 S	T90 ≤ 30 S	T90 ≤ 30 S
Alarm Types	Visual, Audible, Vibrating	Visual, Audible, Vibrating	Visual, Audible, Vibrating
Ex-Grade	Ex ia IIC T4 Ga	Ex ia IIC T4 Ga	Ex ia IIC T4 Ga
Ingress Protection	IP66	IP66	IP66
Operating Time	≥ 8h per Charge	2 Years	2 Years
Charging Time	4-6 h	-	-
Display	LCD Screen	LCD Screen	LCD Screen
Event Log	2000 Events	200 Events	256 Events
Weight	220g	85g	130g
Dimensions	120 x 68 x 30 mm	61.5 x 52.8 x 27 mm	91 x 58 x 34 mm
Approvals	ATEX & IECEx by TÜV	ATEX & IECEx by CSA	ATEX by Nemko
Image			

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use in Potentially explosive atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: Nemko 12ATEX1040 Issue 1

[4] Equipment or Protective System: Portable Gas Detector

[5] Applicant/ Manufacturer: Hanwei Electronics Group Corporation

[6] Address: No 169 Xiaxiang Road, National Hi-Tech Zone, Zhengzhou 45001, P.R.CHINA.

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Nemko AS, notified body number 0470, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. D6030252

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012+A11:2013, EN 60079-11: 2012

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 1G Ex ia IIC T4 Ga, Ta : -20°C to + 55°C

Oslo, 2018-12-19

Ger Herbe
Certification Manager

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate No.: IECEx TUR 12.0048X Page 1 of 4 Certificate history:

Status: Current Issue No: 0

Date of issue: 2020-04-01

Applicant: Hanwei Electronics Group Corporation
No.169, Xiaxiang Road,National Hi-Tech Zone,Zhengzhou 450001,
China

Equipment: Gas Detector

Optional accessory: BX616

Type of Protection: Ia or db ia

Marking: Ex ia IIC T4 Ga or Ex db ia IIC T4 Ga
EPL Ga(without catalytic reaction sensor) or EPL Gb(with catalytic reaction sensor)

Approved for issue on behalf of the IECEx Certification Body: Dipl.-Ing. Klaus-peter Graiff

Position: Head of Certification Body

Signature: (for printed version)

Date: 2020-04-01

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:
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Köln
Germany

TÜVRheinland

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres – Directive 2014/34/EU

(3) EU-Type Examination Certificate Number

TÜV 17 ATEX 8116 X Issue: 00

(4) Equipment: Portable Multi-Gas detector, model BX616

(5) Manufacturer: Hanwei Electronics Group Corporation

(6) Address: No. 169, Xiaxiang Road, National Hi-Tech Zone, Zhengzhou 450001,China

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Rheinland Zertifizierstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 0242115.00/17

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012/A11:2013 EN 60079-11:2012 EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for ongoing manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 2 G Ex ia IIC T4 Ga or
II 2 G Ex db ia IIC T4 Gb

TÜV Rheinland Zertifizierstelle für Explosionsschutz Cologne, 2020-07-13

Dipl.-Ing. Andreas Wohlgemuth

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