

BH-90A

SINGLE GAS
DETECTOR



DETECTOR DE GAS PORTATIL BH-90A

Características:

1. sensor de Grado Industrial, alta precisión, datos reales, fuerte estabilidad, detección en tiempo real.
2. Modo de alarma Triple (sonido, luz, vibración) no es fácil de ignorar, alta seguridad, alto y bajo valor de alarma se puede configurar gratis
3. Batería de litio recargable de 3.3.7v, capacidad de la batería 1500MA, el tiempo de carga es de menos de cinco horas, trabajo continuo durante más de diez horas (la detección de gas no es inferior a 7 horas)
4. material ABS de alta resistencia, resistente al agua, a prueba de polvo, a prueba de explosiones.
5. el uso de la tecnología de microcontrol de 8 bits convencional, respuesta rápida, alta precisión, estabilidad y repetibilidad, funcionamiento simple, tamaño pequeño, portátil y duradero, con un alto grado de rendimiento impermeable, soporta el duro ambiente de la prueba

Descripción del producto:

- ✓ Tipo de Gas: H2S
- ✓ Rango de Medicion de :0-100 ppm
- ✓ Resolución de: 1 ppm
- ✓ Tiempo de Respuesta(T90): menor a 20 segundos
- ✓ Valores de Alarmas: Low 10 ppm, High 15 ppm
- ✓ 3 métodos de alarma: Alarma de sonido, luz intermitente, alerta vibratoria,
- ✓ Valores de Alarmas Ajustables por el usuario
- ✓ Nivel de Alarma Audible: >80 Db
- ✓ Temperatura de funcionamiento: -20 °C ~ 50 °C (excepto LEL es 0 ~ 40C)
- ✓ Humedad de funcionamiento:<95% RH (sin Rocío)
- ✓ Pantalla: Pantalla HD de 2,0 pulgadas
- ✓ Potencia: batería de litio de 3,7 V (integrada)
- ✓ Duración de la batería: 10 horas o más.
- ✓ Peso neto del producto: 227g (con batería)
- ✓ Tamaño: 100mm × 60mm × 30mm (L x W x H)
- ✓ Marca a prueba de explosiones: Exib IIB T3 Gb
- ✓ Clase de protección: ip65
- ✓ Almacenamiento de registros: 1000 grupos de registros de alarma
- ✓ Tamaño del producto: 130mm x 67mm × 30mm (L x W x H)
- ✓ Peso del paquete: 1000g





8-bit micro-control technology, quick response, High measurement accuracy

Can support more than 30 kind of customized gas



EX/O₂/H₂S/CO/
H₂/NO/NO₂/
SO₂/O₃/Cl₂/H₃



PACKING LIST

- 1 x H2S gas monitor
- 1 manual de usuario en inglés
- 1 x adaptador de carga
- 1 x cable de carga USB
- 1 x de calibración de la cubierta
- 1 x caja metálica de aluminio
- 1 x Certificado



Certificato di esame UE del tipo

EU-type examination certificate

ATEX n. OP180827.HBETD05



Rilasciato ai sensi della Direttiva 2014/34/UE – Allegato III – Modulo B
Issued according to 2014/34/EU Directive – Annex III – Module B

Ragione Sociale
Company Name Henan Bosean Electronic Technology Co., Ltd.
Indirizzo
Address Apartment 21, 10th floor, Building 10, Enterprise Campus, No. 228, West 4th Ring, High and New Technology Industry Development Zone, Zhengzhou, Henan, China.
Prodotto
Product Gas detector (Ex ib IIB T3 Gb)
Modello(i)
Model(s) BH-90, BH-90A, BH-4S

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato. This equipment or protective system and any acceptable variation thereto are described in this Certificate.

ECM 1282, facendo riferimento all'art. 9 della Direttiva 2014/34/UE ha eseguito una Verifica di Corrispondenza di questa apparecchiatura o sistema di protezione all'allegato III. Si ritiene che sono soddisfatti i requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva. ECM 1282, with reference to the Article 9 of Directive 2014/34/EU have carried out a Verification of Compliance of this equipment or protective system was tested according to Annex III. It is understood that the essential health and safety requirements are satisfied for the project and construction of equipment and protective systems intended to be used in potentially explosive atmospheres as given in Annex II of the Directive.

I requisiti essenziali di sicurezza e salute sono soddisfatti dalla rispondenza alle Norme applicate: EN 60079-0:2012, EN 60079-11:2012. The essential health and safety requirements are satisfied by the compliance to the applied Standard: EN 60079-0:2012, EN 60079-11:2012.

Questo Certificato di esame UE del tipo è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione. Questi requisiti non sono oggetto del presente certificato. This EU-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition. These requirements are not covered by this certificate.

L'apparecchiatura o il sistema fa riferimento ai seguenti contrassegni:

The equipment shall refer to the following symbols:



Valsamoggia (BO)
Data - Date 27/08/2018

Scadenza - Expiry date 26/08/2023



Firma autorizzata
Authorized signature

Amanda Payne
(Deputy Manager)

Technical Construction File no. TAMJ201808272704

This certificate can be checked for validity at www.entecerma.it

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di Serravalle - 40053 Valsamoggia (BO)

+39 051 6705141 +39 051 6705156 info@entecerma.it www.entecerma.it

SIL



Functional Safety Certificate

No. DP190911.HBEC008

Certificate's Holder: Henan Bosean Electronic Technology Co., Ltd.
 Apartment 21, 10th floor, Building 10, Enterprise Campus, No. 22B, West 4th Ring, High and New Technology Industry Development Zone, Zhengzhou

Product Model(s): Toxic Gas Detector
 BH-60, BH-50, K-G60, K-G60S, K-G90, K-G90S, BH series, K series

Standard: IEC 61508 Parts 1-7:2010
 And meets requirements providing a level of integrity to:
 Systematic Capability: SC 3 (SIL 3 Capable)
 Random Capability: Type A Element
 SIL 2 @ HFT=0; SIL 3 @ HFT=1; Route 2H
 PFD_{avg} and Architecture Constraints must be verified each application.
 * Safety function:
 The gas detector sends out the alarm signal when the gas concentration exceeds the set alarm value.
 * Specific requirements:
 The instructions of the associated Installation and Operating Manual shall be considered.
 * It is suitable to be safety function according to the description and the configuration defined in Annex I.

Verification Mark:



The Verification Mark can be affixed on the product, it is NOT permitted to alter the Verification Mark in any way

Remark: This SIL Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Test Report is existent for the above listed product(s) and found to meet the requirements of above standards for application in safety related system up to Safety Level of SIL 3.
 The unit must be properly designed into a Safety Instrument Function as per the requirements in the Safety Manual. The Verification Mark shown above can be affixed on the product, it is NOT permitted to alter the Verification Mark in any way. In addition the Verification's Holder is NOT allowed to transfer the Verification to third parties. This certificate can be checked for validity of www.enteccm.it

Date of issue 11 September 2019

Expiry date 10 September 2024

Chief Manager
 Marco Moriggi

Deputy Manager
 Amanda Ezzine



Ente Certificazione Macchine

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Certificate Of Compliance

Certificate Number: UNI2017111717RC-01

Applicant : Henan Bosean Electronic Technology Co.,Ltd.
No.228,West 4th Ring,National High-Tech zone,Zhengzhou,China

Manufacturer : Henan Bosean Electronic Technology Co.,Ltd.
No.228,West 4th Ring,National High-Tech zone,Zhengzhou,China

Product : Portable gas detector

Trade Name : N/A

M/N : BH-90a

Test Standard: IEC62321:2008
IEC62321-4:2013
IEC62321-5:2013

The EUT described above has been consolidated by us and found in compliance with the council RoHS Directive 2011/85/EU. It is only valid in connection with the test report number: UNI2017111717RR-01

2017-11-17

Date of issue



Hoffer Lau

RoHS

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #385 Baotian 1 Rd, Tiexiang

Community, Xixiang Str, Bao'an District, Shenzhen, China

Tel:+86-755-86180986 Fax:+86-755-86180156

<http://www.uni-lab.hk> E-mail:hofferlau@uni-lab.hk





Certificate of Compliance

Certificate Number: UNI2017111717EC-01

Applicant : Henan Bosean Electronic Technology Co.,Ltd.
No.228, West 4th Ring, National High-Tech zone, Zhengzhou, China
Manufacturer : Henan Bosean Electronic Technology Co.,Ltd.
No.228, West 4th Ring, National High-Tech zone, Zhengzhou, China
Product : Portable gas detector
Trade Name : N/A
M/N : BH-90a

Test Standard: EN61326-1:2013
EN61000-4-2:2009, EN61000-4-3:2006+A2:2010

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC Directive 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with EMC Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: UNI2017111717ER-01.

2017-11-17

Date of issue



Hoffer Lau



Shenzhen United Testing Technology Co., Ltd.

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FCC VERIFICATION of CONFORMITY

Certificate Number: UNI2017111717FC-01

We herewith confirm the following designated product:

Portable gas detector

Trade Name: N/A

MODEL NO.: BH-90a

(Product Identification)

has been tested and found in compliance with the requirements of 47 CFR PART 15 regulation & ANSI C63.4 for the evaluation of Class B of electromagnetic compatibility. It is only valid in connection with the test report number: UNI2017111717FR-01.

This device complies with Part 15 of the FCC rules, operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

(Identification of regulations/standards)

This declaration is the responsibility of the manufacturer/importer

Henan Bosean Electronic Technology Co.,Ltd.

No.228, West 4th Ring, National High-Tech zone, Zhengzhou, China

(Name /Address)

MANUFACTURER / IMPORTER

TEST LABORATORY

This is the results of test that was carried out by UNI, from the submitted type samples of the product is in conformity with the specification of the respective standards.

The certificate holder has the right to fix the FCC-mark on the product complying with the required rules.



Hoffer-Lau

2017-11-17

Date of issue

Name

Date

Shenzhen United Testing Technology Co., Ltd.

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