

ADD: 440-17 Cheong Cheon-Dong

Pu Pyung-Ku Inchon Korea

TEL: 82-32-503-3796 FAX: 82-32-504-0261

Gas Pressure Switch for Explosion Proof (Variable)

(SGPS-EX-3V) (SGPS-EX-10V) (SGPS-EX-50V) (SGPS-EX-150V) (SGPS-EX-500V)

PRODUCT SPECIFICATION SHEET

EX Rating: Ex nR II T6

Certi No: 13-GA2BO-0767X



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Features

- This switch sends electrical signal at the point of setting pressure
- It's possible for users to adjust the setting point within the range of pressure marked.
- This switch has a structure for proof-explosion so that it can keep gas from outside.
- · Easy installing, Having slim and unique design.

APPLICATION

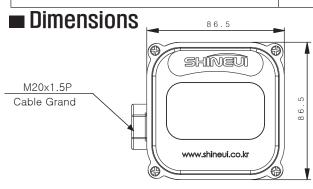
- . Applied to industrial boiler, Gas burner for boiler and so on.
- . Installing in dangerous place with having possibility to explode.
- . Applied to the dangerous place with having possibility to explode by mixture of air, gas, steam and mist.

SPECIFICATIONS

TYPE	Diaphragm type / Adjustable type		
	BASE	ALDC12	
	COVER	ALDC12	
Material	UPPER	POLYCARBONATE	
Material	Diaghragm and PACKING	NBR	
	Terminal	Brass	
	ETC	AL5052,AL2021,SUS	
Ambient temperature	-15°C ≤ Ta ≤ +	+60℃	
Electrical rating	Min AC24V ~ Max AC250V , 6A (Resistive Load)		
Control fluid	LNG, LPG, AIR		

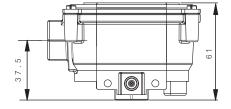
SPECIFICATIONS

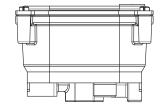
Model Max. Sustained pressure		SGPS-EX-3V	SGPS-EX-10V	SGPS-EX-50V	SGPS-EX-150V	SGPS-EX-500V
		500 mbar				800 mbar
Stand pressure setting range	Factory set point	0.4~3.0 mbar	1.0~10 mbar	2.5~50 mbar	30~150 mbar	100 ~ 500 mbar
	Switching Difference	≤0.3 mbar	≤0.5 mbar	≤1.5 mbar	≤5 mbar	≤13 mbar
	Adjustable tolerance	± 15%				
	Differential	± 15%				
Degree of protection	IP65					
		At the terminal screw directly, or you have to connect an adapter if you want to use the standard cable grand(M20X1.5). Refer to the below picture				
		PF 1/4"				



* Precautions*

- 1. Max. Sustained pressure (SGPS-EX-500V) must not be supplied more than a few second.
- 2. It can bring about leakage due to missing screws, Foreign Materials, Debris and assembly-mistake.
 (It's customer's error, so please be careful)





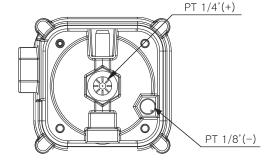


Fig 1. Proof - Explosion Gas pressure switch (V)

The specifications and dimensions can be changed without warning

No. 2013 - 0767



Safety Certificate

Manufacturer ShinEui Entec Co., LTD

Address

34 #297 Road, Bupyeong-Daero, Bupyeong-Gu, Incheon.

Republic of Korea

The following equipment fabricated by the above manufacturer has been certified for the use of the Safety Certification Mark as the equipment is assessed and tested in accordance with the article 34 of the Occupational Safety & Health Act and the article 58 (4) 4 of the Enforcement Rule thereof.

Product

Gas Pressure Switch for Explosion Proof

Type(Model)

SGPS-EX-***V

· Rating

Max. AC 250 V. 6A

· Type of Protection

Ex nR II T6

· Certification No.

13-GA2BO-0767X

· Safety Certification Standards

Notification of Protective device Mandatory Safety Certification (Notice of Ministry of Employment and Labor No. 2010-36)

1. Tamb = -15 °C ~ +60 °C

2. Use only Ex certified cable gland or selaing fitting with more than IP54

· Certification condition

3. Routine test for dielectric test is necessary.

Refer to the manual before use.

· Date of issue

September 24th, 2013

Approved for issue on behalf of the president :

Ki youn Song

position :

General Manager

Sianature



Korea Gas Safety Corporation





Report No.: 14-010488-02

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TEST REPORT

1. Applicant

Name

: ShinEui Entec co., Ltd.

Address

: 34, Bupyeong-daero 297 beon-gil, Bupyeong-gu,

Incheon, Korea

2. Products

Name

Gas Pressure Switch (Variable)

Model/Type

SGPS-150V

Manufacturer

ShinEui Entec co., Ltd.

Remark

3. Test Standard/Method: IEC 60529:2001, KS C IEC 60529:2006

4. Test Results

: IP65 (Refer to document)

5. Use of Report

: For Quality Control

6. Date of Application : 2014. 03. 07

7. Date of Issue

: 2014. 03. 14

Tested by

Base Technology Center

Chang-ho Kim

Approved by

Base Technology Center

Leader Jun-gu Kang

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

Korea Testing Laboratory

87, Digital 26-gil, Guro-gu, Seoul, Korea (152-718) http://www.ktl.re.kr

Tel.: +82-2-860-1531

Fax.: +82-2-860-1549





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TEST RESULTS

for Degree of protection provided by enclosures(IP Code)

1. Test Results

Code letters	IP	Test method and Record	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	1. CONDITIONS 1.1 Talcum powder(mesh): Wire diameter=50 \(\mu \), width between wires=75 \(\mu \) 1.2 Amount of talcum powder of the test chamber: 2kg/m² 2. TEST 2.1 Volume of the enclosures: about 120 cm² 2.2 Reduction air pressure: -2.0 kPa (-200 mmH ₂ O) 2.3 Flow rate: 0.1 LPM 2.4 Extraction rate per hour: 50 volumes/h 2.5 Test duration: 2 hours	Pass
2nd Characteristic numerals Against ingress of water with harmful effects	5	 CONDITIONS Internal diameter of the nozzle : 6.3 mm Delivery rate : 12.5 LPM±5% Core of the substantial stream :	Pass

2. Reference Data

(1) Test conditions: 21.3 ℃, 53 %RH, 86~106 kPa

(2) Size: 86.5 mm×86.5 mm×61 mm

(3) Rating: AC 24~250 V, 6 A

(4) Identical Model: SGPS-3V, SGPS-10V, SGPS-50V, SGPS-500V

 $(86.5 \text{ mm} \times 86.5 \text{ mm} \times 61 \text{ mm})$