

No. 2013-014874-01

# 안전인증서

## Certificate of Safety

Power-Genex Ltd.

44B-9L, 434-9, Nonhyun-Dong, Namdong-Gu, Incheon, 405-849, Korea

The following product produced by the above company has been authorized for the use of the safety certification marking as the product has satisfied the safety and health requirements stipulated in the article 34 of Industrial Safety and Health Law and the clause 4 of paragraph 4 of article 58 of enforcement regulations for the law.

### Electrical Equipment

Smart Valve Positioner

### Model (Marking) / Certificate No.

SS2 Series (Ex ia IIC T6/T5 Ga or Gb) / 13-KB2BO-0155X

### Applied standards

Notification No. 2010-36 of the Ministry of Employment and Labor

### Conditions of Certification

- Manufacturing location(s)** : This certificate is only valid for the specified products produced at '44B9L, 434-9, Nonhyun-Dong, Namdong-Gu, Incheon, 405-849, Korea'.
- Description of equipment**
  - Rating : Input DC 24V, Output 4~20mA
  - Input (Port 1-No.1, 2) :  $U_i = 28\text{ V}$ ,  $I_i = 93\text{ mA}$ ,  $P_i = 651\text{ mW}$ ,  $C_i = 23\text{ nF}$ ,  $L_i \approx 0$
  - Output (Port 2 . No. 4, 5) :  $U_i = 28\text{ V}$ ,  $I_i = 93\text{ mA}$ ,  $P_i = 651\text{ mW}$ ,  $C_i = 22\text{ nF}$ ,  $L_i \approx 0$
  - 2 x STDT LIMIT Switches (Port 4-1-No. 11&12 or 12&13, Port 4-2-14&15 or 15&16) :  $U_i = 28\text{ V}$ ,  $I_i = 93\text{ mA}$ ,  $P_i = 651\text{ mW}$ ,  $C_i = 0$ ,  $L_i = 0$
  - Ambient Temperature :  $-40\text{ }^\circ\text{C} \leq T_a \leq +40\text{ }^\circ\text{C}$  (for T6) or  $+80\text{ }^\circ\text{C}$  (for T5)
- Scope of certification** : This certificate is only valid for the models as above.
- Special conditions for safe use**
  - Warning-Potential electrostatic charging hazard - see instructions.
  - Models with enclosures made of aluminium are considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction. Particularly, it must not be used for applications that specifically require Zone 0 equipment.
  - The insulation between an intrinsically safe circuit and a frame of the equipment is not capable of withstanding a 500V dielectric strength test. This shall be taken into account during installation.
- Details of certificate changes** : None
- Details of the others** : None

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한국산업기술시험원장  
KOREA TESTING LABORATORY





제2013-014874-01호

# 안전인증서

파워제넥스(주)

인천시 남동구 논현동 434-9번지 44B-9L

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Smart Valve Positioner

## 형식·모델(용량·등급) / 인증번호

SS2 Series (Ex ia IIC T6/T5 Ga or Gb) / 13-KB2BO-0155X

## 인증기준

고용노동부고시 제2010-36호

## 인증조건

- 1. 제조공장** : '인천시 남동구 논현동 434-9번지 44B-9L'에서 생산하는 제품에 한함
- 2. 제품개요**
  - 정격 : Input DC 24V, Output 4~20mA
  - Input (Port 1-No.1, 2) :  $U_i = 28\text{ V}$ ,  $I_i = 93\text{ mA}$ ,  $P_i = 651\text{ mW}$ ,  $C_i = 23\text{ nF}$ ,  $L_i \approx 0$
  - Output (Port 2 . No. 4, 5) :  $U_o = 28\text{ V}$ ,  $I_o = 93\text{ mA}$ ,  $P_o = 651\text{ mW}$ ,  $C_o = 22\text{ nF}$ ,  $L_o \approx 0$
  - 2 x STDT LIMIT Switches (Port 4-1-No. 11&12 or 12&13, Port 4-2-14&15 or 15&16) :  $U_i = 28\text{ V}$ ,  $I_i = 93\text{ mA}$ ,  $P_i = 651\text{ mW}$ ,  $C_i = 0$ ,  $L_i = 0$
  - 사용주위온도 :  $-40\text{ }^\circ\text{C} \leq T_a \leq +40\text{ }^\circ\text{C}$  (for T6) or  $+80\text{ }^\circ\text{C}$  (for T5)
- 3. 인증범위** : 본 인증서는 위의 형식번호에 한하여 유효함
- 4. 안전한 사용을 위한 조건**
  - 경고 - 정전기 방전 위험 있음 - 사용설명서 참조
  - 알루미늄을 포함한 외함은 외부 충격이나 마찰 시 점화위험 존재함 - 취급 시 주의할 것, 특히 Zone 0에서는 사용하지 말 것
  - 외함과 본안회로 사이에 500V 내전압 성능이 없음을 설치 시 고려할 것
- 5. 인증(변경)사항** : 없음
- 6. 그 밖의 사항** : 없음

2013 년 4 월 15 일

## 한국산업기술시험원장

