

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 21ATEX0071 X** Issue Number: **0**

(4) Product: **Smart Positioner, SP760 series**

(5) Manufacturer: **SHIN HWA ENG. CO., LTD.**

(6) Address: **242, Cheongneung-daero, Namdong-gu, Incheon, Republic of Korea**

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

(8) DEKRA Certification B.V., Notified Body number 0344 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 test report number 510057200, issue 0.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-1 : 2014

EN 60079-31 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 product shall include the following:



II 2 G Ex db IIC T6/T5 Gb
II 2 D Ex tb IIIC T80 °C / T90 °C Db

Date of certification: 24 September 2021

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 21ATEX0071 X**

Issue No. **0**

(15) **Description**

The Smart Positioner, SP760 series is made of aluminium ally (ALDC12.1) and controls the valve stoke in responsive to an input signal of 4 to 20 mA in normal operation.

When there is a feedback option in the positioner, separated power must be supplied to the feedback signal and supplying voltage must be 9 to 28 V and not exceed maximum 30 V.

The equipment provides a degree of protection IP66 in accordance with EN 60529.

Certified cable entry device with IP66 shall be used.

- 2 conduit/cable entries: 1/2 NPT or M20 x 1,5.

Ambient temperature range:

-30 °C ≤ T_a ≤ +70 °C for T6 or T80 °C

-30 °C ≤ T_a ≤ +80 °C for T5 or T90 °C

Electrical data

Input signal: DC 4 to 20 mA (max. 24 mA)

Feedback signal: DC 4 to 20 mA (max. 24 mA)

Feedback option power: 9 to 28 V (max. 30 V)

Nomenclature

SP760 * ** * * * * * *
 (A) (B) (C) (D) (E) (F) (G) (H)

Code	Subject	Value
(A)	Acting type	S or D
(B)	Motion type	L1, L2, R0, R1 or R2
(C)	Feedback	0 or 1
(D)	Lock condition	1 or 2
(E)	Explosion proof type	0, 1, 2, 3 or 4
(F)	Connection	N or M
(G)	Position limit switch	0 or 1
(H)	Hart communication	0 or H

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 21ATEX0071 X** Issue No. **0**

(16) **Report Number**

No. 510057200, Issue 0.

(17) **Specific conditions of use**

The minimum yield stress of special fasteners is 626 MPa.
For details on the flamepaths, the manufacturer shall be contacted.
Precaution shall be taken to minimize the risk from the non-metallic painting of the enclosure.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 510057200, Issue 0.

(20) **Certificate history**

Issue 0 - 510057200 initial certificate