



No. 2019-069638-01-1(1/2)

안전인증서

Certificate of Safety

Senmatic A/S

Industrivej 8, DK-5471 Sønderso, Denmark

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 34 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 4 of Article 58-4 of ENFORCEMENT ORDINANCE OF the same ACT.

Electrical Equipment

Multi-Spot Thermometer

Model(Marking) / Certificate No.

Type-NL-Cryo(Ex ia IIC T5) / 19-KA4BO-0912X

Applied standards

Announcement No. 2019-15 of Ministry of Employment and Labor

Conditions of Certification

1. Manufacturing location(s)

·This certificate is valid only for the specified peroducts produced at 'Industrivej 8, DK-5471 Sønderso, Denmark'.

2. Description of equipment

·This equipment is multi spot temperature sensor.
·Electrical parameters for Intrinsic Safety

	U_i	I_i	P_i	L_i	C_i
temperature elements with a common return(up to 20 elements)	7.2 V	400 mA	700 mW	40 μ H	500 nF
temperature elements 3-wire(up to 20 elements)	7.2 V	400 mA	700 mW	40 μ H	500 nF
temperature elements 4-wire(up to 16 elements)	7.2 V	400 mA	700 mW	40 μ H	500 nF
Pt100 average, Cu 90, 48 average with common return (up to 5 elements)	7.2 V	400 mA	700 mW	40 μ H	500 nF

·Ambient temperature is specified in the annex A.

3. Scope of certification:

This certificate is valid only for the models in the annex B.

4. Special conditions for safe use

·See SPECIFIC CONDITIONS OF USE in the related IECEx certificate(IECEx FME 08.0007X Issue No.9) for the details.

5. Details of certificate change:

None.

6. Details of others

·Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
·This certificate shall be used with the related IECEx certificate(IECEx FME 08.0007X issue No.9).

Date of Issue: 2019-11-28

한국산업기술시험원장





No. 2019-069638-01-1(2/2)

Conditions of Certification

[Annex A] Ambient temperature

- Above Flange: $-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$
- Below Flange: $-200\text{ }^{\circ}\text{C} \leq T_a \leq +95\text{ }^{\circ}\text{C}$

[Annex B] Model classification code

- NL-Cryo (a)(b)1(c)(d)(e)111(f)
 - (a) Overall length mm
 - (b) Sheath diameter: 1, 2
 - (c) Flange connection: 1, 2, 3
 - (d) Number of conductors: 3, 5, 6
 - (e) Number of spots
 - (f) Cable lead out(total length)