



1. EC-TYPE EXAMINATION CERTIFICATE

- 2. Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 3. EC-Type Examination Certificate Number: ITS13ATEX17816X
- 4. Equipment or Protective System: Thermal Sensors
- 5. Applicant : SENMATIC A/S.
 - Address : Industrivej 8, DK-5471 Soendersoe, Denmark
- 6. Manufacturer : as above

Address

- 7. This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- 8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report Ref. G101231657 dated October 2013.

- 9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0: 2012, EN60079-1: 2007, EN 60079-31: 2009, and EN 60079-26: 2007 except in respect of those requirements referred to at item 18 of the Schedule.
- 10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- 11. This EC-Type examination certificate relates only to the design of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protection system.
- 12. For marking Information see schedule:



II 1/2 GD

Ex d IIC T4 Tamb -40°C to +95°C Ga/Gb Ex ta IIIC T135°C Tamb -40°C to +95°C Da

Intertek Testing & Certification Limited
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http://www.intertek.com

Andrew Austin
Certification Officer
31 October 2013

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ

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- 13. Schedule
- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX17816X
- 15. DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM

The Thermal Sensors comprise a stainless steel sensor connected to a component certified, flameproof, cast aluminium alloy terminal head.

The available types are as follows:

Type OPE, which can have a welded-in sheath of 9 mm diameter or a 6 mm diameter sheath which must be used with the type LOS thermowell for mechanical protection KT19 8DA.

Type OPX, which has a reduced tip size for faster response and is welded to a mounting flange.

All types can have a PT or NTC sensing element, with or without an incorporated transmitter

The terminal head has EPL Gb/Da and the probe tip has EPL Ga/Da

The following types are included

Type OPE					V3.5	
tmmersion/i.1 /mm min. 100 mm max. 2000 mm				1 2		
Sheath dia./wallth./ 29 26 only Atex approvimen ordered w. typ	1			1	Temperatur 50 / +500°C	
Extension length/L 80 mm	2/mm	1 2		1	Cl. A :±	0.15°C :0.3°C
240 mm		3		4	1/6 DIN :±	
1/2" NPT 1" NPT		2		12		
3/8" BSP				•••••		
2 cond			2 3			aal request
3 cond. prepared for 4 cond. prepared for FF bus, 5350A	transmiller transmiller		2 3 4 5 6 7			

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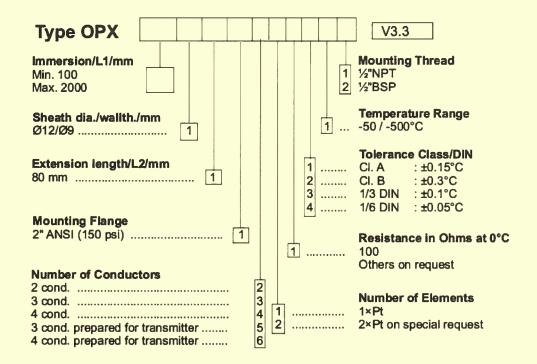
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Intertek



- 13. Schedule
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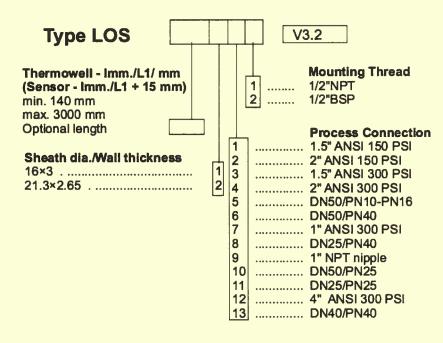
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13. Schedule

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16. REPORT NUMBER

Intertek Report No. G101231657 dated October 2013.

17. SPECIAL CONDITIONS FOR SAFE USE

- (a) Special conditions for safe use
- For temperatures below -20°C and above +70°C only cable suitable for the temperature must be used
- 2. Any Dust layer must not exceed 50 mm
- 3. Probes must be protected from any kind of mechanical Impact
- Sensor types OPE with diameter ø6 may only be used when mounted into Thermowell type LOS.
- 5. The connection head must be protected from radiated and conducted heat from the process so that the tamb is not exceeded
- (b) Conditions for Use (Routine Tests)
- 1. Routine pressure test at 50 bar.

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- 13. Schedule
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- 18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (ESHR'S)

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in Intertek Report Ref. G101231657 dated October 2013.

19. DRAWINGS

Drawing Number	Revision	Date of Revision	Drawing Description
304-0490 sheets 1 and 2	3	07.04.09	OPE Lomme 1/2" NPT
304-0491 sheets 1 and 2	3	07.04.09	OPE Lomme 1/2" BSP
304-0092 sheets 1 and 2	3	07.04.09	OPE Lomme 3/8" BSP
304-0493 sheets 1 and 2	4	09.08.2013	OPE Lomme 1" NPT
304-0494 sheets 1 and 2	2	10.07.2013	OPX POCKET
700-0092 sheets 1 and 2	3	07.04.09	OPE Lomme 3/8" BSP
700-0093 sheets 1 and 2	6	26.06.2013	Type-OPE Open
700-0094 sheets 1 and 2	6	26.06.2013	Type-OPE med lomme
700-0095 sheets 1 and 2	3	26.06.2013	Type-OPX
700-1102 sheets 1 and 2	2	10.07.2012	MMI Ø6 med sokkel
700-1265 sheets 1 and 2	2	22.03.2011	MMI Ø6 INDSATS
1401-117 sheets 1 and 2	3	10.07.2013	Type LOS Ø16 (POCKET FOR OPE)
1401-118 sheets 1 and 2	3	22.11.2011	TYPE-LOS Ø21,3 (POCKET FOR OPE)
103-452	2	16.10.2013	Installation guide / data sheet OPE/OPX/LOS

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