

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Nittan Model	Alternative Model	Part number	Labelled	Unit Description
EV-DP		F14_82105	Nittan	Analogue Addressable Dual Photoelectric Smoke Detector.
	CN-DP	023115	Consilium	
	EV-DP	040040	Consilium	

The product fulfils the essential characteristic:

See Annex 1

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:
Nittan Europe Limited
Hipley Street Old Woking
GU22 9LQ Surrey
United Kingdom

and produced in the manufacturing plant:
CPA10024

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-7:2018 : **Fire detection and fire alarm systems - part 7: Smoke detectors - Point smoke detectors that operate using scattered light, transmitted light or ionization**

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: **2022-02-21**.

This certificate will remain valid as long as neither the harmonized standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued 2016-11-28)

This certificate was first issued 2014-08-01.



Allan Laursen
Responsible for evaluation



Merete Poulsen
Responsible for certification decision

Annex 1

EXTENT

Additional Economic Operator (Distributor)

Consilium Marine & Safety AB, P.O. Box 8763, SE-402 76, Gothenburg, Sweden.

Type:

EV-DP Analogue Addressable Dual Photoelectric Smoke Detector.
Addressable dual smoke Detector intend for use in fire detection and fire alarm systems intalled in and around buldings.

Alternative Model

CN-DP Analogue Addressable Dual Optical Smoke Detector
EV-DP Analogue Addressable Dual Optical Smoke Detector

Operating Voltage:

20 to 38 V DC

Bases:

UB-6 – Standard Base
UB-6-EV – Standard Base
UB-6-SCI – Isolator Base
STB-4SE – Standard Deep Base

Performance

Essential characteristics	Clauses in EN 54-7:2018	Regulatory classes	Performance
Operational reliability:			
Individual alarm indication	4.2.1	None	The visual indicator(s) are visible from a distance of 6 m in an ambient light intensity up to 500 lx.
Connection of ancillary devices	4.2.2		Open or short circuit failures of connection to ancillary device did not prevent the correct operation of the detector
Monitoring of detachable detectors	4.2.3		A fault condition is signaled when the detector is removed from the mounting base.
Manufacturer's adjustments	4.2.4		It is not possible to adjust the detector settings without the use of a special tool to access into the detector or use of a code to enabling entry into the panel programming software.
On site adjustment of response behavior	4.2.5		The mode(s) of operation are adjustable from the Control and Indicating Equipment by use of a loop communication protocol. Access to enable mode changes is by software control of the protocol communication.
Protection against the ingress of foreign bodies	4.2.6		The chamber is designed so that a sphere of diameter (1,3±0,05) mm cannot pass into the sensor chamber.
Response to slowly developing fires	4.2.7		The provision of "drift compensation" (e.g. to

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			compensate for sensor drift due to the build-up of dirt in the detector), does not lead to a significant reduction in the detectors sensitivity to slowly developing fires.	
Software controlled detectors (when provided)	4.2.8		The software documentation and the software design complies with the requirements of EN 54-7:2018.	
Nominal activation conditions/sensitivity:				
Repeatability	4.3.1	Threshold	Ratio of response values $m_{max}:m_{min} \leq 1.6$ Lower response value, $m_{max}:m_{min} \geq 0.05 \text{ dB m}^{-1}$	
Directional dependence	4.3.2		Ratio of response values $m_{max}:m_{min} \leq 1.6$ Lower response value, $m_{max}:m_{min} \geq 0.05 \text{ dB m}^{-1}$	
Reproducibility	4.3.3		Ratio of response values $m_{max}:\bar{m} \leq 1.33$ Ratio of the response values $\bar{m}:m_{min} \leq 1.5$ Lower response value, $m_{min} \geq 0.05 \text{ dB m}^{-1}$	
Response delay (response time):				
Air movement	4.4.1		Ratio is > 0.0625 and < 1.60 and the point smoke detector did not emit a fault nor alarm signal during the test with aerosol-free air	
Dazzling	4.4.2		The specimen did not emit neither an alarm nor a fault signal and Ratio of response thresholds $m_{max}:m_{min} \leq 1.6$	
Tolerance to supply voltage:				
Variation in supply parameters	4.5		Ratio of response values $m_{max}:m_{min} < 1.6$ Lower response value, $m_{min} \geq 0.05 \text{ dB m}^{-1}$	
Performance parameters under fire conditions:				
Fire sensitivity	4.6		Evaluated as meeting the requirements of TF2 toTF5	
Durability of nominal activation conditions/Sensitivity:				
temperature resistance				
Cold (operational)	4.7.1.1	The specimen did not emit neither an alarm nor a fault signal and Ratio of response values $m_{max}:m_{min} \leq 1.6$		
Dry heat (operational)	4.7.1.2	The specimen did not emit neither an alarm nor a fault signal and Ratio of response values $m_{max}:m_{min} \leq 1.6$		
Humidity resistance				

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Damp heat, steady-state (operational)	4.7.2.1	<p>The specimen did not emit neither an alarm nor a fault signal and ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No fault signal given from the specimen during the conditioning period or the additional 2 min. and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No fault signal given from the specimen during the conditioning and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No fault signal, attributable to the endurance conditioning was given on reconnection of the specimen and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p> <p>No alarm or fault signal given during the conditioning and Ratio of response values $m_{max}:m_{min} \leq 1.6$</p>
Damp heat, steady-state (endurance)	4.7.2.2	
Corrosion resistance		
Sulphur dioxide (SO ₂) corrosion (endurance)	4.7.3	
Vibration resistance		
Shock (operational)	4.7.4.1	
Impact (operational)	4.7.4.2	
Vibration, sinusoidal (operational)	4.7.4.3	
Vibration, sinusoidal (endurance)	4.7.4.4	
Electrical stability EMC immunity (operational)	4.7.5	
<ul style="list-style-type: none"> a) Electrostatic discharge (operational) b) Radiated electromagnetic fields (operational) c) Conducted disturbances(operational) d) Fast transient bursts (operational) e) Slow high energy voltage surge (operational) 		

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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
DELTA	DANAK-1910836 Rev. A	2010-06-09
Intertek	102299795LHD-001 Issue 1	2016-11-02
Intertek	103437765LHD-001a	2018-06-22

Annex 3

TECHNICAL BASIS

File Number	Title	Date
	EV-DP Document Register NACL	

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