



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

58000-305 Analogue Addressable CO/Heat Multisensor Detector

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:

Apollo Fire Detectors Ltd.
36 Brookside Road

Havant, Hampshire, GB-P09 1JR

United Kingdom

and produced in the manufacturing plant:

Apollo Fire Detectors Ltd. 36 Brookside Road Havant, Hampshire, GB-P09 1JR United Kingdom

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

EN 54-5:2017/A1:2018 : Fire detection and fire alarm systems - Part 5: Heat detectors - point heat detectors

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT.

This certificate was first issued on 2019-10-09 and will remain valid as long as neither the harmonised 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The attached annexes form part of this certificate.

Date of issue: 2022-08-25.

(This certificate supersedes the previous version of this certificate issued 2019-10-09)

Merete Poulsen
Responsible for evaluation

Responsible for certification decision

The certificate shall be reproduced in extenso – extracts only with written permission from DBI Certification A/S.





Annex 1

EXTENT

Type:

58000-305 Analogue Addressable CO/Heat Multisensor Detector

Bases

45681-210 Standard Intelligent Mounting Base

Notes:

- 1. Mode 5 is approved to EN 54-5:2017/A1:2018
- 2. The CO functionality is not included within the scope of approval.

Description:

Class A1 Adressable Heat Detector intend for use in fire detection and fire alarm systems intalled in and around buldings. With additional test for Suffix R detectors.

Operating Voltage:

17 to 28 V DC

Heat Response Catergory:

*For detector categories with the suffix S or R, additional requirements are needed see 4.4.1 or 4.4.2

Table 1

Detector Category	Typical Application	Maximum	Minimum Static	Maximum Static
(Heat Class):	Temperature	Application	Response	Response
		Temperature °C	Temperature °C	Temperature °C
A1R	25	50	54	65

Table 2- Response time limits

Rate of rise of	Cat A1R				
air temperature K min-1	Lower limit		Uper limit		
	Min	S	Min	S	
1	29	0	40	20	
3	7	13	13	40	
5	4	9	8	20	
10	1	0	4	20	
20		30	2	20	
30		20	1	40	



– extracts only with written permission from DBI Certification A/S.





Performance

Essential characteristics	Clauses in EN 54-5:2017/ A1:2018	Regulatory classes	Performance
Operational reliability: Position of heat sensitive	4.2.1	1	The heat sensitive element(s) or at least part of it, except
element	4.2.1		elements with auxiliary functions (e.g.characteristic correctors), are a distance ≥15mm from the mounting surface of the point heat detector.
Individual alarm indication	4.2.2		Category A1R The heat detector is provided with an integral red visual indicator and can remain identified until the alarm is reset. The visual indicator is visible from a distance of 6 m directly below the point heat detector, in an ambient light intensity up to 500 lx.
Connection of ancillary devices	4.2.3		Open or short circuit failures of connection to ancillary device do not prevent the correct operation of the detector
Monitoring of detachable point heat detectors	4.2.4		A fault condition is signaled when the detector is removed from the mounting base.
Manufacturer's adjustments	4.2.5		It is not possible to change the maufacture's settings expept by special means (e.g. a special code or tool, or by breaking or remove a seal).
Onsite adjustments of response behavior	4.2.6	A1R	N/A
Software controlled detectors	4.2.7		The software documentation and the software design complies supplied by the manufacturer with the requirements of this standard.
Nominal activation conditions/Sensitivity:			
Directional dependence	4.3.1		The response time of the point dectetor do not unduly depend on the direction of airflow around the point heat detector.
Static response temperature	4.3.2		The response temperatures of the point heat detectors lie between the minimum and maximum static response temperatures, according to the category of the point heat detector in Table 1 above.
Response times from typical application temperature	4.3.3		The response times of the point heat detector lie between the lower and upper response time limits for the appropriate point heat detector category in Table 2 above.
Response times from 25 °C	4.3.4		The response time at 3 K min ⁻¹ exceeds 7 min 13 s and the response time at 20 K min ⁻¹ exceeds 1 min 0 s.



[–] extracts only with written permission from DBI Certification A/S.





Response times from high ambient temperature	4.3.5	No alarm or fault signal was given at high ambient temperatures appropriate to the anticipated service temepratures. A1R 3 K min ⁻¹ , Lower limit, 1 min 20 s and upper limit 13m 40s. 20 K min ⁻¹ , Lower limit, 12 s and upper limit 2 m 20 s.
Reproducibility	4.3.6	The response times of the point heat detectors lie between the lower ad upper response time limits specified in Table 2 above.
Response delay (response time):		
Additional test for suffix S	4.4.1	N/A
Additional test for suffix R point heat detectors	4.4.2	Suffix R, the point heat detector maintains the response requirements of its category, in table 2 above, for high rates of rise of temperature from an initial temperature below the typical application temperature applicable to the category marked on it.
		Point heat detector Initial conditioning temperature °C A1R 5 ±2
Tolerance to supply voltage:		
Variation in supply parameters	4.5	The point heat detector does not unduly depent on variation in the supply parameters and lie between the lower and upper response time limits specified in Table 2 above.
Durability of nominal activation conditions/Sensitivity:		
temperature resistance		
Cold (operational)	4.6.1.1	No alarm or fault signal was given during the transition to the conditioning temperature or during the period at the condition temperature
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6
Dry heat (endurance)	4.6.1.2	No fault signal was given on reconnection attributable to the endurance conditioning
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6
		_ * _



The certificate shall be reproduced in extenso

– extracts only with written permission from DBI Certification A/S.





Damp heat, cyclic (operational) No alarm or fault signal was given during the conditioning.	Humidity resistance		
conditioning. Lower temperature: (25±3) °C Upper temperature: 295 % At upper temperature: 205 % At upper temperat		4.6.2.1	No alarm or fault signal was given during the
Upper temperature: (40±2) °C Relative humidity: At lower temperature: (93±3) % Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40±2 °C Relative Humidity: 93±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Corrosion resistance Sulphur dioxide (SO ₂) corrosion (endurance) Conditioning Conditio			
Upper temperature: (40±2) °C Relative humidity: At lower temperature: (93±3) % Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40±2 °C Relative Humidity: 93±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Corrosion resistance Sulphur dioxide (SO ₂) corrosion (endurance) Conditioning Conditio			
Relative humidity: At lower temperature: 295% At upper temperature: 295.31 % Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2°C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion resistance Sulphur dioxide (50-); corrosion (endurance) 4.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2°C Relative Humidity: 93 ±3 % SO2 concertaion: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock (pulse type: Half sine			
At lower temperature: 2.95 % At upper temperature: (93 ±3) % Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.5 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion resistance Sulphur dioxide (50-) corrosion (endurance) Vibration resistance Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Upper temperature: (40±2) °C
At lower temperature: 2.95 % At upper temperature: (93 ±3) % Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.5 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion resistance Sulphur dioxide (50-) corrosion (endurance) Vibration resistance Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
At upper temperature: (93 ±3) % Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Response time at 3 K min ¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion (endurance) A.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. A1R: 20 K min ² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			·
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40±2 °C Relative Humidity: 93±3 % Duration: 2± days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion (endurance) A.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25±2 °C Relative Humidity: 93±3 % SO2 concentration: 25±5 ppm (by volume) Duration: 21 days Response time at 3 K min² was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			At upper temperature : (93 ±3) %
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40±2 °C Relative Humidity: 93±3 % Duration: 2± days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion (endurance) A.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25±2 °C Relative Humidity: 93±3 % SO2 concentration: 25±5 ppm (by volume) Duration: 21 days Response time at 3 K min² was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Damp heat, steady-state (endurance) 4.6.2.2 Damp heat, steady-state (endurance) 4.6.2.2 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. AIR: 20 K min² was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Corrosion resistance Sulphur dioxide (SO₂) corrosion (endurance) 4.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. AIR: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
AIR: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			· · · · · · · · · · · · · · · · · · ·
Damp heat, steady-state (endurance) 4.6.2.2 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			obtained in 4.3.6.
Damp heat, steady-state (endurance) 4.6.2.2 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			AAD 20 K wind was at least they 20 and did not assessed
Damp heat, steady-state (endurance) 4.6.2.2 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			30's compared with the time obtained in 4.3.6
the endurance conditioning. Conditioning Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine	Davis hash shards shake	4622	No fault signal was given an assument on attailude ha
Conditioning Temperature: 40 ± 2 °C Relative Humidity: 93 ± 3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Corrosion resistance Sulphur dioxide (SO ₂) Corrosion (endurance) No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine		4.6.2.2	
Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine	(endurance)		tne enaurance conditioning.
Temperature: 40 ±2 °C Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Conditioning
Relative Humidity: 93 ±3 % Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Corrosion resistance Sulphur dioxide (SO₂) corrosion (endurance) 4.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO₂ concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Corrosion resistance Sulphur dioxide (SO ₂) corrosion (endurance) A.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Corrosion resistance Sulphur dioxide (SO₂) corrosion (endurance) No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Duration : 21 days
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Corrosion resistance Sulphur dioxide (SO₂) corrosion (endurance) No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Decrease time at 2 Key in 1 was not less than 7 as in 42 a
obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
A1R: 20 K min-1 was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Corrosion resistance Sulphur dioxide (SO₂) corrosion (endurance) A16.3 Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min-1 was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min-1 was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Sulphur dioxide (SO₂) corrosion (endurance) 4.6.3 Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 Solution ing Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			obtained in 4.3.6.
Sulphur dioxide (SO₂) corrosion (endurance) 4.6.3 Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. Vibration resistance Shock (operational) 4.6.4.1 Solution ing Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days Response time at 3 K min¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			440.00 % . 1
Corrosion resistance Sulphur dioxide (SO ₂) corrosion (endurance) 4.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Sulphur dioxide (SO ₂) corrosion (endurance) 4.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			30 s compared with the time obtained in 4.3.6
Sulphur dioxide (SO ₂) corrosion (endurance) 4.6.3 No fault signal was given on reconnection attributable to the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine	Compaigned		
the endurance conditioning. Conditioning Temperature: 25 ± 2 °C Relative Humidity: 93 ± 3 % SO2 concentration: 25 ± 5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine		4.6.2	No facility is all the state of
Conditioning Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine		4.6.3	
Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) A.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine	corrosion (endurance)		the endurance conditioning.
Temperature: 25 ±2 °C Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) A.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Conditioning
Relative Humidity: 93 ±3 % SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			-
SO2 concentration: 25 ±5 ppm (by volume) Duration: 21 days Response time at 3 K min⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
Duration: 21 days Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			· ·
Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Duration: 21 days
and did not exceed 2 min 40 s compared with the time obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			Response time at 2 K min-1 was not less than 7 min 12 c
obtained in 4.3.6. A1R: 20 K min⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			
A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6 Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			·
30 s compared with the time obtained in 4.3.6 Vibration resistance			Obtained in 4.5.0.
30 s compared with the time obtained in 4.3.6 Vibration resistance			A1R: 20 K min ⁻¹ was not less than 20 s, and did not avoord
Vibration resistance Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg : Shock pulse type: Half sine			
Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine			50 3 compared with the time obtained in 4.5.0
Shock (operational) 4.6.4.1 No alarm or fault signal was given during the conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine	Vihration resistance		
conditioning period or an additional 2 min. For specimen with a mass ≤ 4,75 kg: Shock pulse type: Half sine		4641	No alarm or fault signal was given during the
For specimen with a mass ≤ 4,75 kg : Shock pulse type: Half sine	Shock (operational)	4.0.4.1	
Shock pulse type: Half sine			Conditioning period of all additional 2 min.
Shock pulse type: Half sine			For specimen with a mass < 4.75 kg·
			Tot specimen with a mass 2 4,73 kg.
			Shock nulse type: Half sine
Tabe datation. Only			
	<u> </u>		T disc datation . O ms



[–] extracts only with written permission from DBI Certification A/S.





		Peak acceleration: 10X (100-20M) ms-2 (M is specimen mass in Kg) Number of directions: 6 Pulses per direction: 3 Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6
Impact (operational)	4.6.4.2	No alarm or fault signal was given during the conditioning period or an additional 2 min.
		Conditioning: Impact energy: 1,9 ±0,1 J Hammer velocity: 1,5 ±0,13 ms ⁻¹ Number of impacts: 1
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6
Vibration, sinusoidal (operational)	4.6.4.3	No fault signal was given during the conditioning Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 5 ms⁻²(≈0,5 gn) Number of axes: 3 Sweep rate: 1 octave min⁻¹ Number of sweep cycles: 1 per axis
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6
Vibration, sinusoidal (endurance)	4.6.4.4	No fault signal was given on reconnection attributable to the endurance conditioning.
		Conditioning: Frequency range: 10 to 150 Hz Acceleration amplitude: 10 ms ⁻² (≈1,0 g _n) Number of axes: 3 Sweep rate: 1 octave min ⁻¹ Number of sweep cycles: 20 per axis
		Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6

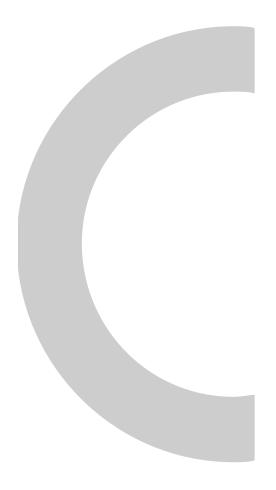


– extracts only with written permission from DBI Certification A/S.





Electrical stability EMC immunity (operational)	4.6.5	Compliance in EN 50130-4:2011 and No fault signal was given during the conditioning. Response time at 3 K min ⁻¹ was not less than 7 min 13 s and did not exceed 2 min 40 s compared with the time obtained in 4.3.6.
		A1R: 20 K min ⁻¹ was not less than 30 s and did not exceed 30 s compared with the time obtained in 4.3.6











Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
BRE	TE 254539	2011-10-27
BRE	TE 254539-SW	2011-10-14
BRE	TE-P105645-1002 Issue: 1	2019-03-06

TECHNICAL BASIS

File Number		Title	
58000-305		Build Standard	
45681-210		Build Standard	



