

CERTIFICATE

of constancy of performance 1922 - CPR - 1014

In compliance with Regulation (EU) No 305/2011 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

Electrical automatic control and delay devices for gas extinguishing systems. Control and indicating equipment. Power supply equipment. Fire detection and extinguishing control panel- model SQS 101

(Environmental class A)

(For list of controlled characteristics, see Annexes I, II and III to 1922-CPR-1014 that are an inseparable part of this certificate)

placed on the market under the name or trade mark of

QUADEL doo.

Zorana Radosavljevica Cupe 30, Nis, Serbia

and produced in the manufacturing plant of

QUADEL doo.

Zorana Radosavljevica Cupe 30, Nis, Serbia

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

EN 12094-1:2003, EN 54-2:1997, EN 54-2:1997/AC:1999, EN 54-2:1997/A1:2006 and EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002, EN 54-4:1997/A2:2006

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 17.05.2018 and will remain valid until 02.11.2019 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.



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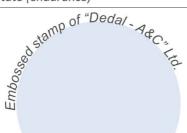
ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1014/02.11.2018 (page 1 of 1)

Performance list, acc. to EN 54-2:1997, EN 54-2:1997/AC:1999, EN 54-2:1997/A1:2006

Performance under fire conditions		
- General requirements	pass	4
- General requirements for indications	pass	5
- The fire alarm condition	pass	7
Response delay (response time to fire)		
- Reception and processing of fire signals	pass	7.1
- Output of the fire alarm condition	pass	7.7
- Delay to outputs	pass	7.11
- Dependencies on more than one alarm signal	N/A	7.12
Operational reliability		
- General requirements	pass	4
- General requirements for indications	pass	5
- The quiescent condition	pass	6
- The fire alarm condition	pass	7
- Fault warning condition	pass	8
- Disabled condition	pass	9
- Test condition	pass	10
- Standardized input/output interface	N/A	11
- Design requirements	pass	12
- Additional design requirements for software controlled control and indicating equipment	pass	13
- Marking	pass	14
Durability of operational reliability, temperature resistance		
- Cold (operational)	pass	15.4
Durability of operational reliability, vibration resistance		
- Impact (operational)	pass	15.6
- Vibration, sinusoidal (operational)	pass	15.7
- Vibration, sinusoidal (endurance)	pass	15.15
Durability of operational reliability, electrical stability		
- Electromagnetic compatibility (EMC), immunity tests (operational)	pass	15.8
- Supply voltage variations	pass	15.13
Durability of operational reliability, humidity resistance		
- Damp heat, steady state (operational)	pass	15.5
- Damp heat, steady state (endurance)	pass	15.14



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ANNEX II TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1014/02.11.2018 (page 1 of 1)

Performance list, acc. to EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002, EN 54-4:1997/A2:2006

Performance of power supply	Performance	Clause
- General requirements	pass	4
- Functions	pass	5
- Materials, design and manufacture	pass	6
Operational reliability		
- General requirements	pass	4
- Functions	pass	5
- Materials, design and manufacture	pass	6
- Documentation	pass	7
- Marking	pass	8
Durability of operational reliability, temperature resistance		
- Cold (operational)	pass	9.5
Durability of operational reliability, vibration resistance		
- Impact (operational)	pass	9.7
- Vibration, sinusoidal (operational)	pass	9.8
- Vibration, sinusoidal (endurance)	pass	9.15
Durability of operational reliability, electrical stability		
- Electromagnetic compatibility (EMC), immunity tests (operational)	pass	9.9
Durability of operational reliability, humidity resistance		
- Damp heat, steady state (operational)	pass	9.6
- Damp heat, steady state (endurance)	pass	9.14

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ANNEX III TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1014/02.11.2018 (page 1 of 2)

Performance list, acc. to EN 12094-1:2003

Characteristics	Performance	Clause
Performance Parameters Under Fire Conditions		
- Signal processing and indication	Pass	4.3
Reception and processing of input triggering signals	Pass	4.4
Transmission of extinguishing signal	Pass	4.5
- Activation of alarm devices	Pass	4.6
Response Delay (response time)		
Activated condition	Pass	4.8
Operational Reliability		
Environmental Class	Pass	4.2
Signal processing and indication	Pass	4.3
Reception and processing of input triggering signals	Pass	4.4
Transmission of extinguishing signal	Pass	4.5
Activation of alarm devices	Pass	4.6
Indication of the supply with power	Pass	4.7
Activated condition	Pass	4.8
Indication of activated condition	Pass	4.9
Released condition	Pass	4.10
Indication of released condition	Pass	4.11
Resetting of the activated condition and the released condition	Pass	4.12
Fault warning condition	Pass	4.13
Indication of the fault warning condition	Pass	4.14
Disabled condition	Pass	4.15
Indication of disabled condition	Pass	4.16
Mechanical design	Pass	5.2
Manual controls	Pass	5.3
Indication by means of separate light emitting indicators	Pass	5.4.2
Indications by means of alphanumeric displays	N/A	5.4.3
Audible indicators	Pass	5.5
Electrical design of components	Pass	5.6
Circuit design	Pass	5.7
Operational Reliability		
Additional design requirements for software controlled ECD's	Pass	6
Marking	Pass	7
Documentation	Pass	8
Ourability of Operational Reliability		
General test requirements	Pass	9.1
Functional tests	Pass	9.2
Environmental tests	Pass	9.3
- Damp heat, cyclic	Pass	9.4
- Sulphur dioxide (SO2) corrosion (endurance)	N/A	9.5



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ANNEX III TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1014/02.11.2018 (page 2 of 2)

Performance list, acc. to EN 12094-1:2003

The product is certified with the following options with requirements from EN12094-1:

- 1. Delay of the extinguishing signal for a period programmable in steps of 1 sec (clause 4.17)
- 2. Reception of a signal representing the extinguishing agent flow (Agent Released/ Discharged input) (clause 4.18)
- 3. Monitoring of the status of components (I/O lines controlled for open & short circuit) (clause 4.19)
- 4. Reception of signal from emergency hold device (Emergency hold input) (clause 4.20)
- 5. Control of flooding time in a period programmable in steps of 1 sec (clause 4.21)
- 6. Change over from "manual only" to "automatic/manual" mode (clause 4.22)
- 7. Transmission of a triggering signal to equipment within the extinguishing system (clause 4.24)
- 8. Transmission of a triggering signal to equipment outside the extinguishing system (clause 4.26)
- 9. Reception of signal from emergency abort device (Emergency abort input) (clause 4.27)
- 10. Activation of alarm devices with different signals (clause 4.30)







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