NOTIFIED BODY No. 1293

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0658

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

Fire detection and alarm control panel
BSR-1004, BSR-1002, BSR-1001

For specifications see Annex No.1 and No.2 to this certificate

placed on the market under the name or trade mark of

Olympia Electronics N. Lakasas – P. Arvanitidis S.A.
72nd klm old national road Thessaloniki - Katerini, 60300 Eginio, Greece

and produced in the manufacturing plant

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72nd klm old national road Thessaloniki - Katerini, 60300 Eginio, Greece

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

EN 54-2: 1997
EN 54-2: 1997/AC: 1999
EN 54-2: 1997/A1: 2006
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 October 25th, 2019 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

EVPÚ, a.s. NOVÁ DUBNICA Notified Body No. 1293

Nová Dubnica, October 25th, 2019

Marek Hudák
Director NB

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Annex No. 1 to Certificate No. 1293 - CPR – 0658 from October 25th, 2019

General Information:

The BSR-100X series of Analogue Addressable Fire Alarm Panels consists of 3 models (1, 2 and 4 loop connections), named BSR-1001, BSR-1002 and BSR-1004 respectively, all sharing the same control interface, functionality and indications.

All BSR-100X models include 4 outputs for conventional sirens, an alarm relay, a fault relay and a programmable auxiliary relay.

Two 12V lead acid (Pb) batteries are required in each control panel. The supported battery capacity is 7Ah, 9Ah, 12Ah or 15Ah, which must be calculated in accordance with the size of the installation (number of devices) and the required emergency duration (during mains interruption).

The available loop output connections are: 1 for BSR-1001, 2 for BSR-1002 and 4 for BSR-1004. Each loop output connection can support up to 150 addressable units (smoke and heat detectors, addressable sirens, manual fire call points, etc).

The control panel's LCD screen displays information regarding the current state of the fire detection system. The front face is also equipped with LED indicators for essential indications (alarm, fault, status, zones, etc). The LED indicators are divided into groups, according to their purpose. Their color also define their event type, red LEDs indicate alarm, yellow LEDs indicate status or fault, green LED indicates the mains power

Description	BSR-1001 Analogue Addressable Fire Alarm Panel 1 Loop / 128 Zones	BSR-1002 Analogue Addressable Fire Alarm Panel 2 Loops / 128 Zones	BSR-1004 Analogue Addressable Fire Alarm Panel 4 Loops / 128 Zones
Loop circuits	1 loop 150 addressable points 400mA max current	2 loops 150 addressable points per loop 400mA max current per loop	4 loops 150 addressable points per loop 400mA max current per loop
Weight (without batteries)	4,08kg	4,21kg	4,33kg

Technical specifications:

Charger	Stabilized power supply 27,6V / 900mA
Conventional sounder / siren circuits	4 x 24VDC (± 3VDC) / 300mA max short / open circuit monitored 10kΩ termination resistor
24VP Output	24VDC (± 3VDC) permanent output / 300mA max short-circuit monitored
24VM Output	24VDC (± 3VDC) resettable output / 300mA max short-circuit monitored
FAULT / ALARM / AUX Relays	potential free contacts, rated at 30VDC / 5A max (resistive load) all output relays must be protected by appropriate fuses externally dependent to the circuit's characteristics
Battery cut-off voltage	20,5V
Battery discharge current	2A max
Battery resistance (ESR)	1Ω max (higher values will lead to battery resistance fault)
Ingress protection (case)	IP 30
Compatible cables	Cables for fire detection systems such as FIP200, MICC, PYROFIL
Fuse type	Mains input: 4A/250V (Fast) TR5 – non replaceable Battery: 900mA self resettable – non replaceable
Operating temperature range	-5 to 40 °C
Relative humidity	Up to 95% non-condensing
Dimensions (LxWxH)	355 x 115 x 345 mm
Construction materials	ABS – polycarbonate / metal sheet with electrostatic paint

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Annex No. 2 to Certificate No. 1293 - CPR – 0658 from October 25th, 2019

List of optional functions with requirements included in the			
Clause	**Description**	**Yes (Y)**	**No (N)**
7.8	Output to the fire alarm device	Y	
7.9	Control of fire alarm routing equipment	N	
7.9.1	Output to fire alarm routing equipment	N	
7.9.2	Alarm confirmation input from fire alarm routing equipment	N	
7.10	Output to fire protection equipment	N	
7.10.1	Output type A	N	
7.10.2	Output type B	N	
7.10.3	Output type C	N	
7.10.4	Fault monitoring of fire protection equipment	N	
7.11	Delay to outputs	Y	
7.12	Dependencies on more than one alarm signal	Y	
7.12.1	Type A dependency	Y	
7.12.2	Type B dependency	N	
7.12.3	Type C dependency	N	
7.13	Alarm counter	Y	
8.3	Fault signals from points	Y	
8.4	Total loss of the power supply	N	
8.9	Output to fault warning routing equipment	N	
9.5	Disablement of addressable points	Y	
10	Test condition	Y	
11	Standardized input/output interface	N	

Essential characteristics	**Harmonised technical specification**		**Performance**
	EN 54-2:1997 EN 54-2:1997 / AC:1999 EN 54-2:1997 / A1:2006	**EN 54-4:1997 EN 54-4:1997 / AC:1999 EN 54-4:1997 / A1:2002 EN 54-4:1997 / A2:2006**	
Performance under fire conditions	cl. 4, 5, 7	---	Pass
Performance of power supply	---	cl. 4, 5, 6	Pass
Response delay (response time to fire)	cl. 7.1, 7.7, 7.11, 7.12=N/A	---	Pass
Operational reliability	cl. 4, 5, 6, 7, 8, 9, 10, 11=N/A, 12, 13, 14	cl. 4, 5, 6, 7, 8	Pass
Durability of operational reliability and response delay: temperature resistance	cl. 15.4	cl. 9.5	Pass
Durability of operational reliability: vibration resistance	cl.15.6,15.7,15.15	cl. 9.7, 9.8, 9.15	Pass
Durability of operational reliability: electrical stability	cl. 15.8, 15.9 to 15.12=N/A, 15.13	cl. 9.9, 9.10 to 9.13=N/A	Pass
Durability of operational reliability: humidity resistance	cl. 15.5, 15.14	cl. 9.6, 9.14	Pass

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