

**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

**Model AU2402**

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:

**Autronica Fire and Security AS  
Bromstadvegen 59  
7047 Trondheim  
Norway**

and produced in the manufacturing plant:

**Elmdene International Ltd  
3 Keel Close, Interchange Park  
Portsmouth, Hampshire, PO3 5QD  
United Kingdom**

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

**EN 54-4:1997/A1:2002/A2:2006 : Fire detection and fire alarm systems - Part 4: Power supply equipment**

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: **2020-12-18**

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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 was first issued 2020-12-18.



Merete Poulsen  
Responsible for evaluation



Thomas Anthony Wilson  
Responsible for certification decision

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 **DANAK**  
Prod. Reg. Nr. 7023

Version 2019-10-02  
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Annex 1

**EXTENT**

**Product/Device description:**

Model AU2402-7                    2A Power Supply with model 7 Enclosure  
 Model AU2402-17                2A Power Supply with model 17 Enclosure

**Product information:**

Model Reference:                AU2402  
 Type:                                Power supply equipment (PSE)  
 Description:                        This product is designed as power supply equipment for automatic fire detection and fire alarm systems installed in buildings.

**Technical Data:**

Supply Voltage:                 110-240 V AC (+10% / -15%)  
 Output Voltage (Mains):       27.0 – 28.3 V DC (27.6 V nominal)  
 Output Voltage (Battery):     21.0 – 26.0 V dc  
 I<sub>max a</sub>:                            2.0A (1.8 A with 17Ah Batteries)  
 I<sub>max b</sub>:                            2.5 A  
 I<sub>min</sub>:                                0 mA  
 R<sub>i max</sub>:                            0.5 Ω  
 Battery Capacity:                2.1 Ah with 7 Enclosure  
     7 Ah with 7 Enclosure  
     17 Ah with 17 Enclosure  
 Enclosure Size:                 7 Enclosure 275 x 330 x 80 mm  
     17 Enclosure 400 x 420 x 80 mm

**Performance**

Essential characteristics	Clauses in EN 54-4:1997	Performance
Performance of power supply	4, 5, 6 a)	Pass
Operational reliability	4, 5, 6, 7, 8 a)	Pass
Durability of operational reliability; temperature resistance	9.5	Pass
Durability of operational reliability; vibration resistance	9.7, 9.8, 9.15	Pass
Durability of operational reliability; electrical stability	9.9 to 9.13	Pass
Durability of operational reliability; humidity resistance	9.6, 9.14	Pass

a) The products covered by this standard are assumed to function during the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.

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Annex 2

**TEST DOCUMENTATION**

Accredited Laboratory	Report no.	Date
UL LLC	NC25138-D1-European Directive-Original 2401/2	2014-10-31

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**DBI Certification A/S**

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Annex 3

**TECHNICAL BASIS**

File Number	Title	Rev.
-	STX2401 and STX2402 Block Diagram – Control, Fault and DC Routing	02A -
-	STX2401 and STX2402 Power Block Diagram	02A -
-	STX2401 and STX2402 Description of Operation	01B -April 2016
-	STX2401 and STX2402 Software Documentation	2016
PAK200583	Model STX2401 Installation Manual	02A
SAS100711	Battery Leads and Thermistor BOM	02A
MEC200674	C Type Enclosure Base	03A
MEC200304	C Type Enclosure Lid	04A
MEC200269	E Type Enclosure Base	22A
MEC200274	E Type Enclosure Lid	10A
PAK200582	Model STX2402 Installation Manual	2B
-	STX2402 PCA Bill of Materials	01C
PCB120700	STX2402 Component layout	02A
-	Model STX2401 and STX2402 PCA Critical Component list	01B
-	Model STX2402-C Bill of Materials	02A
-	Model STX2402-E Bill of Materials	02B
2012-02-15	Model STX2401 and STX2402 PCA Schematic	X4
SCREEN-PSU-STX	Silkscreen Label outside of Cabinet	01B

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