

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa18ATEX0113X– Issue 1**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **PAGASYS Gen II Access Panel Type AP7 / AP8**

5 Manufacturer: **Federal Signal Corporation**

6 Address: **2645 Federal Signal Drive, University Park, Illinois 60484, USA**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa18ATEX00113X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **See Certificate History**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

⊕ II 2 G Ex ib IIB T4 Gb (-20°C ≤ Ta ≤ +55°C)

SGS Baseefa Customer Reference No. **5121**

Project File No. **19/0110**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

D BREARLEY
Certification
Manager

13

Schedule

14

Certificate Number Baseefa18ATEX0113X – Issue 1

15 Description of Product

The PAGASYS Gen II Access Panel Type AP7 / AP8 provide remote audio and alarm initiation when connected to a main communication and alarm system (a public address and general alarm, PAGAs, system).

The equipment consists of up to three printed circuit boards (one keypad PCB and one PCB for each of the two panel drivers) containing various electronic components, a membrane keypad with LED indicators (which may be mounted on a flat or an angled enclosure face), one or two piezoelectric sounders and an Exi MIC1 microphone – coded Ex ia IIC T6 Ga and covered by Baseefa07ATEX0105X - housed within a metal enclosure which provides a degree of ingress protection of at least IP54.

Electrical connections are made to the P-IS-BARRIER-G, coded [Ex ib Gb] IIB and covered by Baseefa18ATEX0112X, via armoured multicore Type A or Type B cables with entry to the enclosure being made by appropriate cable glands located on a removable gland plate on the rear of the enclosure.

Input parameters

Terminals 1, 2, 5, 6, 7, 8 wrt 3

U_i	=	8.6V	C_o	=	55 μ F
I_i	=	100mA	L_o	=	14.22mH
P_i	=	215mW			

Terminal 4 wrt 3

U_i	=	15.02V	C_o	=	3.55 μ F
I_i	=	309mA	L_o	=	2.97mH
P_i	=	1.16W			

16 Report Number

See Certificate History

17 Specific Conditions of Use

1. The PAGASYS Gen II Access Panels are to be connected to a P-IS-BARRIER-G, terminal blocks TB2 & TB3, located in the non-hazardous area, via Type A or B cables (with parameters not exceeding those given above) as defined in EN 60079-14.
2. The PAGASYS Gen II Access Panels are intended for desktop or rack mounting and bonding to earth must be achieved when correctly installed.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
850000861A	1 of 1	A0	02.06.19	PAGAs, Keypad, Cover

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
850000680A	1 of 1	A0	02.13.18	Type AP7 Block Schematic
850000682A	1 of 1	A0	02.13.18	Type AP7 & AP8 Rack Wiring Diagram (P-IS-BARRIER-G)
850000683A	1 of 1	A0	02.13.18	Type AP7 & AP8 Typical Layout
850000684A	1 of 1	A0	02.13.18	Type AP7 Typical Switch Wiring
850000685A	1 of 1	A0	02.13.18	Type AP7 Typical LED Indicator Wiring
850000686A	1 of 1	A0	02.13.18	Type AP8 Typical Wiring
850000690A	1 of 1	A0	02.13.18	Type AP7 Typical Wiring
850000691A	1 of 1	A0	02.13.18	Type AP8 Block Schematic
850000694A	1 of 1	A0	02.13.18	Type AP7 Typical Front Panel Layout
850000695A	1 – 4	A0	02.14.18	Schematic, IS Access Panel Driver
850000696A	1 & 2	A0	02.13.18	PCBA, IS Access Panel Driver + BOM
850000698A	1 of 1	A0	02.15.18	PCBA, IS Access Panel Driver
850000699A	1 & 2	A0	02.14.18	Schematic, Keypad
850000701A	1 of 1	A0	02.14.18	IS Keypad PCB Drill Drawing
850000810A	1 of 1	A0	08.28.18	Label, Certification, AP7, AP8

All drawings are common to, and held with, IECEx BAS 18.0074X

20 Certificate History

Certificate No.	Date	Comments
Baseefa18ATEX0113X	10 December 2018	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2018 & EN 60079-11:2012 is documented in Test Report No. GB/BAS/ExTR18.0321/00. Project File No. 17/0849
Baseefa18ATEX0113X Issue 1	18 October 2019	To permit the use of a protective keypad cover. Test Report No. GB/BAS/ExTR19.0285/00. Project File No. 19/0110.

For drawings applicable to each issue, see original of that issue.