



Italia

CERTIFICATE

- [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 number:
TÜV IT 16 ATEX 010 X Rev.1
- [4] Equipment: Synthesized POCSAG 4-line Alphanumeric Pager FGS-Br802P-NA series
- [5] Manufacturer: Daviscomms(s) Pte Ltd
- [6] Address: Blk 70 Ubi Crescent #01-07
Ubi Techpark Singapore 408570
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] TÜV Italia, notified body no. 0948 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. R 16 EX 005 Rev.1
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012/A11:2013 ; EN 60079-11:2012
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe 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 1G Ex ia IIC T4 Ga

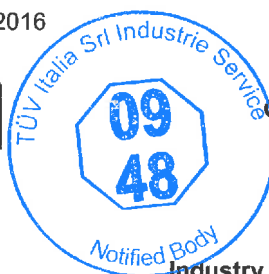
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Issue date: 01st September 2016



SGQ N° 049A SSI N° 005G PRD N° 081B
SGA N° 018D ITX N° 001L ISP N° 057E
SCR N° 009F PRSN° 077C LAB N° 097E

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition
Agreements



TÜV Italia S.r.l.
Organismo notificato N° 0948

Paolo Marcone
Paolo Marcone

**Industry Service - Real Estate & Infrastructure
Managing Director**

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo.
The internal reference code is 276290.

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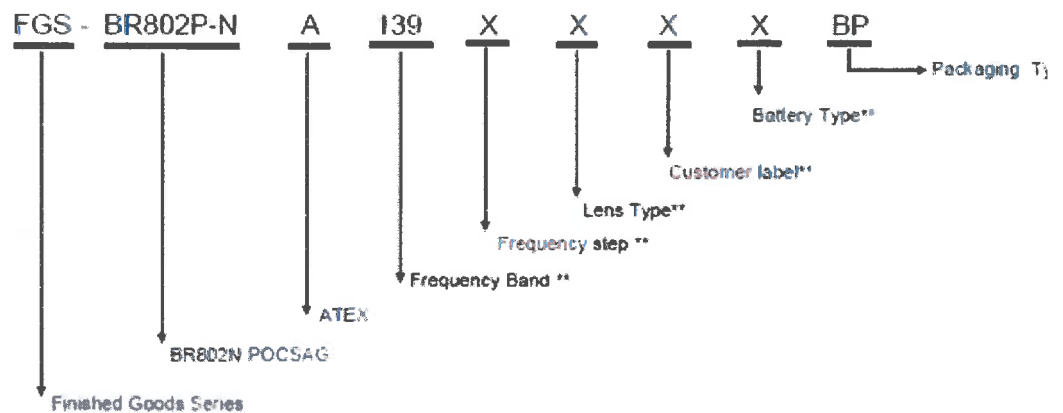
EU-TYPE EXAMINATION CERTIFICATE no. TÜV IT 16 ATEX 010 X Rev.1

Certificate History

Revision	Description	Report Revision	Issue Date
-	First emission	-	27/05/2016
1	Standard upgrade: EN 60079-0:2012 to EN 60079-0:2012/A11:2013 Construction change: Change antenna Add noise suppressor	1	01/09/2016

[15] **Description of equipment**

FGS-BR802P-NA Alphanumeric Pager is a portable pager intended to be used in the hazardous area, using one 1.5V non-rechargeable Alkaline AA Battery or 1.2V rechargeable Nickel-Metal Hydride rechargeable AA Battery. It can be used with or without a holster. The enclosure of the pager is made of PC-350. The pager has different frequency bands.



Frequency band

139	135 - 142.9 MHz	VHF (5 bands)
147	143 - 150.9 MHz	
155	151 - 158.9 MHz	
163	159 - 166.9 MHz	
171	167 - 175 MHz	
442	440 - 443.9 MHz	UHF (7 bands)
446	444 - 447.9 MHz	
450	448 - 451.9 MHz	
454	452 - 455.9 MHz	
458	456 - 459.9 MHz	
462	460 - 463.9 MHz	
466	464 - 468 MHz	
900	900 MHz	900 MHz

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Frequency step

0	25 kHz
N	12.5 kHz narrow band

Lens type

4	ATEX with Daviscomms logo
5	ATEX without Daviscomms logo

Customer label

0	Without reward label
1	With reward label

Battery type

0	With Alkaline AA battery
1	With Nickel-Metal Hydride rechargeable AA battery

Packaging type

BP	Bulk Pack
R0	Retail pack without logo
R1	Retail pack with DC logo

Rated characteristics

External material	Enclosure: RTP399X138765 (Polycarbonate – static dissipative plastic UV stabilized) Display: PC-350 (Polycarbonate – static dissipative plastic)
Ambient temperature	0 + +40 °C
Protection degree	IP20
Rated voltage	1.5VDC (type AA battery)
Use	portable

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Safety ratings

Backup battery

Battery type: Li-MnO₂ (coin type)

Capacity: 5 mAh

Manufacturer: Panasonic

Model: ML621S (C type)

Nominal voltage: 3V

Maximum open circuit voltage: 3.7V

Power battery

Battery type: Zn-MnO₂ (AA type – non rechargeable)

Capacity: 2000 mAh

Manufacturer: Energizer

Model: E91 (L type)

Nominal voltage: 1.5V

Maximum open circuit voltage: 1.65V

Power battery (alternative)

Battery type: Ni-MH (AA type – rechargeable)

Capacity: 1500 mAh

Manufacturer: Energizer

Model: NH15-1500

Nominal voltage: 1.3V

Maximum open circuit voltage: 1.6V

Warning label (inserted in the user manual)

WARNING – DON'T REPLACE BATTERY WHEN EXPLOSIVE ATMOSPHERE IS PRESENT

WARNING – DON'T CHARGE BATTERY IN HAZARDOUS LOCATION

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EU-TYPE EXAMINATION CERTIFICATE no. TÜV IT 16 ATEX 010 X Rev.1

[16] **Report no. R 16 EX 005 Rev.1**

Routine tests

None.

[17] **Special conditions for safe use**

Carefully read the instruction manual before use the device.

For the replacement of the battery, pay attention to the corresponding parameters: type, manufacturer, electrochemical system, rated voltage and rated capacity of the batteries.

Ambient temperature range is 0 ÷ +40°C

[18] **Essential Health and Safety Requirements**

Assured by compliance with the standards set out in the [9].

[19] **Drawings and Documents (prot. 268913 + 276290)**

Title	Description	Rev.	Pages	Date
n.a.	Technical file	n.a	4	11/03/2016
Br802	Product datasheet	02	1	n.a.
ABL-802-26	Drawing: nameplate	01	1	29/12/2015
500403R01	Nomenclature for Br802N Model Name	01	1	11/1/2016
FGS-Br802P-NATEX	Block diagram of product	01	10	17/11/2015
200222R02	Decoder circuit diagram	02	3	04/03/2016
200122R04	VHF receiver circuit diagram	04	2	07/03/2016
200121R01	UHF receiver circuit diagram	02	1	07/03/2016
200120R02	900MHz receiver circuit diagram	02	2	04/03/2016

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Title	Description	Rev.	Pages	Date
200222R02 (Pedro)	Decoder PCB layout	02	10	14/01/2016
200122R04 (Pedro)	VHF receiver PCB layout	04	11	11/01/2016
200121R01 (Pedro)	UHF receiver PCB layout	01	11	12/01/2016
200120R02 (Pedro)	900MHz receiver PCB layout	01	10	11/01/2016
FGS-Br802P- EXPLODED VIEW	Exploded view	01	1	26/02/2016
PLA-000010-1-0	back cover drawing	04	3	07/12/2015
PLA-000011-1-0	Battery door drawing	07	1	07/12/2015
PLA-000013-1-0	Front cover drawing	08	8	07/12/2015
Len-000002-4-0	Lens drawing	1J	2	07/01/2016
MOT-000001-0-0	Vibration Motor explosive view and parameters	R02	8	17/11/2015
---	Vibration motor 6DL-7737A specification	---	9	---
AUD-000001-0-0	buzz explosive view and parameters	R01	3	17/11/2015
---	Buzz HC0901D/157 specification	---	6	---
---	LCD driver SSD1805 specification	---	54	---
---	Back light of LCD specification	---	12	---
---	LCD specification	---	34	---
---	Fuse(F201) specification	---	3	---
---	Datasheet of encapsulation material (Loctite 5140)	---	2	---
---	Battery Specification (Energizer, NH15-1500, Rechargeable, Type AA)	---	1	---
---	Battery Specification (Energizer, E91, Non-rechargeable, Type AA)	---	2	---
---	Button battery Specification sheet(Panasonic, ML621S)	---	17	---
Rev.1				
MAN-000004-0-4	User manual	8	40	29/08/2016
LBL-000087-0-0	Drawing: Address label	01	1	22/07/2016
ANT-000022-0-0	Antenna loop for VHF/UHF RX BR802	01	1	12/04/2016

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Title	Description	Rev.	Pages	Date
LBL-000080-0-0	Noise suppressor sheet	01	1	22/03/2016
FGS-BR802P-NA1390400BP	BOM for BR802NPATEX 135-142.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA1390401BP	BOM for BR802NPATEX 135-142.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA1470400BP	BOM for BR802NPATEX 143-150.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA1470401BP	BOM for BR802NP ATEX 143-150.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA1550400BP	BOM for BR802NPATEX 151-158.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA1550401BP	BOM for BR802NPATEX 151-158.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA1630400BP	BOM for BR802NPATEX 159-166.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA1630401BP	BOM for BR802NPATEX 159-166.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA1710400BP	BOM for BR802NPATEX 167-175 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA1710401BP	BOM for BR802NPATEX 167-175 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4420400BP	BOM for BR802NPATEX 440-443.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA4420401BP	BOM for BR802NPATEX 440-443.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4460400BP	BOM for BR802NPATEX 444-447.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA4460401BP	BOM for BR802NPATEX 444-447.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4500400BP	BOM for BR802NPATEX 448-451.9 normal band with alkaline battery	02		04/07/2016

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Title	Description	Rev.	Pages	Date
FGS-BR802P-NA4500401BP	BOM for BR802NPATEX 448-451.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4540400BP	BOM for BR802NPATEX 452-455.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA4540401BP	BOM for BR802NPATEX 452-455.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4580400BP	BOM for BR802NPATEX 456-459.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA4580401BP	BOM for BR802NPATEX 456-459.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4620400BP	BOM for BR802NPATEX 460-463.9 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA4620401BP	BOM for BR802NPATEX 460-463.9 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA4660400BP	BOM for BR802NPATEX 464-468 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA4660401BP	BOM for BR802NPATEX 464-468 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA9000400BP	BOM for BR802NPATEX 900 normal band with alkaline battery	02		04/07/2016
FGS-BR802P-NA9000401BP	BOM for BR802NPATEX 900 normal band with NiMh battery	02		04/07/2016
FGS-BR802P-NA139N400BP	BOM for BR802NPATEX 135-142.9 narrow band with alkaline battery	02		04/07/2016
FGS-BR802P-NA139N401BP	BOM for BR802NPATEX 135-142.9 narrow band with NiMh battery	02		04/07/2016
FGS-BR802P-NA147N400BP	BOM for BR802NPATEX 143-150.9 narrow band with alkaline battery	02		04/07/2016
FGS-BR802P-NA147N401BP	BOM for BR802NP ATEX 143-150.9 narrow band with NiMh battery	02		04/07/2016

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EU-TYPE EXAMINATION CERTIFICATE no. TÜV IT 16 ATEX 010 X Rev.1

Title	Description	Rev.	Pages	Date
FGS-BR802P-NA458N401BP	BOM for BR802NPATEX 456-459.9 narrow band with NiMh battery	02		04/07/2016
FGS-BR802P-NA462N400BP	BOM for BR802NPATEX 460-463.9 narrow band with alkaline battery	02		04/07/2016
FGS-BR802P-NA462N401BP	BOM for BR802NPATEX 460-463.9 narrow band with NiMh battery	02		04/07/2016
FGS-BR802P-NA466N400BP	BOM for BR802NPATEX 464-468 narrow band with alkaline battery	02		04/07/2016
FGS-BR802P-NA466N401BP	BOM for BR802NPATEX 464-468 narrow band with NiMh battery	02		04/07/2016

One copy of all documents is kept in TÜV Italia files.

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