

# STATEMENT OF CONFORMITY TO STANDARD

Certificate no.:  
C675047-IPA-KOR-DNV

Rev.:  
0

Project no.:  
PRJN-683052

This statement consists of 3 pages

This is to certify that the design of products manufactured by:

**Power Genex Ltd.**

99, Eunbong-ro, Namdong-gu Incheon, Korea 21639

with name and/or type designation(s):

**Air filter regulator: FR series**

has been assessed with respect to the voluntary basis, as type-tested in accordance with:

**IEC 61508:2010, Part 1, 2, 5, 6, 7**

is found to achieve SIL 2 (when HFT=0), and up to SIL 3 (over HFT=1).

*Further details are given overleaf*

Place and date:  
**Seoul, 2024-06-19**

*This statement is valid until: 2029-06-18*



For the issuing office:  
**DNV Business Assurance Korea**



**Jang Sup Lee**  
Country Manager



Certificate no.: C675371-IPA-KOR-DNV  
Place and date: Seoul, 2024-06-19  
Revision no.: 0

### Certificate history

Revision	Description	Issued date
0	Original certificate	2024-06-19

### Products covered by this certificate

Product description	Product name	Product type	Product version(s)
Air filter regulator	FR series	FR10 and FR11 Manual drain FR20 and FR21 Auto drain FR20 and FR21 Manual drain FR30 and FR31 Auto drain FR30 and FR31 Manual drain FR50 and FR51 Manual drain	See "Products data"

### Product data

Safety function	Air filter regulators FR-Series maintain a constant air pressure level regardless of fluctuations in the supply pressure when set pressure is lower than supply pressure.
Target SIL	SIL 2 (HFT=0)
Mode of operation	Low demand mode
Product type	Type A
Route type	2 <sub>H</sub>
Mean Time to Restoration	8h
Mean Repair Time	24h
Proof Test Interval	1 year

Product type Proof Test Interval	FR10 series	FR20 series	FR20 series	FR30 series	FR30 series	FR50 series
	Manual drain	Manual drain	Auto drain	Manual drain	Auto drain	Manual drain
1 year	2.35.E-03	2.03.E-03	1.51.E-03	4.44.E-03	2.12.E-03	4.60.E-03

FR series is achieved SIL 2, and SIL 3 is only capable that FR series is configured redundancy in the system. For attesting SIL 3 of FR series, system is required using FR series redundancy and analyzed to system according to Route 1<sub>H</sub> in IEC 61508.

### Technical document(s) covered by this certificate

Document(s) name	Applied standard(s)	Test carried out
2024-8495, Rev 0	IEC 61508:2010	DNV SCPA Korea



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### Applications/limitations

This certificate only relates to type-tested, as voluntary basis.

### Terms and conditions

This certificate is valid if the product design is equivalent to hardware and software version above written.

The following conditions may render this certificate invalid:

- Changes in the design or construction of the product.
- Changes or amendments in the standard(s).

### Conformity declaration and marking of product(s)

In order to fully meet with the requirements of the applying standard(s), the manufacturer must take all measures necessary to ensure that the manufactured product comply with the technical documentation and with the requirements of the regulation.

End of certificate

