



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 07ATEX1137** Issue: **4**

4 Equipment: **F560 & FH560 Range of Flameproof Enclosures**

5 Applicant: **Pepperl+Fuchs GmbH** (orporating the Govan brand)

6 Address: LilienthalsraÙe 200
68307 Mannheim
Germany
These products may only be manufactured at any Pepperl+Fuchs, Facility that has been audited for the manufacture of the type of protection defined on this certificate; in addition, the site must also be listed on the Quality Assessment Notification PTB 16 ATEX Q001, PTB 97 ATEX Q008 and PTB 97ATEX Q020 or their subsequent issues.

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:
EN 60079-0:2006 EN 60079-1:2004

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G

F560 Enclosures

Ex d IIB T6 IP 66

-20°C ≤ Ta ≤ +40°C,+55°C or +60°C

FH560 Enclosures

Ex d IIB +Hydrogen T6 IP 66

-20°C ≤ Ta ≤ +40°C,+55°C or +60°C

Project Number 1029

Signed:

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The F560 and FH560 Range are rectangular enclosures fitted with a hinged bolted cover forming a flameproof flange joint. The main body and cover are constructed from cast aluminium alloy, stainless steel or cast iron and there is an option of a toughened glass window fitted within the cover. The M10 cover fasteners have a minimum yield stress of 450 N/mm².

The enclosures are fitted with O-rings for the prevention of water and dust ingress and have been independently tested according to the requirements of IEC 60529 to meet IP 66.

The covers may be fitted with:

- up to thirty six, separately certified, switch, pushbutton, indicator or plug modules
- up to eighteen separately certified switch, pushbutton, indicator
- plug modules with up to two Type A2 glass viewing windows
- up to twenty four switch modules.

Each enclosure is marked with the total power dissipation and components may be fitted not exceeding this. The maximum power dissipation values are as follows:

T6 @ +40°C		T6 @ +55°C		T6 @ +60°C	
Max. power	Min. cable rating	Max power	Min. cable rating	Max power	Min cable rating
100 W	75°C	70 W	N/A	56 W	N/A
170 W	90°C	98 W	90°C	84 W	90°C
205 W	105°C	123 W	99°C	90 W	92°C

Threaded metric or NPT entries are provided in the enclosure walls for fitting separately certified cable glands and fittings.

The F560 and FH560 range may be supplied in any of the following configurations:

Type Reference	Enclosure Material	Description
FH560-JB	Cast iron, aluminium alloy or stainless steel	Junction box containing terminals, relays, timers, contactors, motor starters, transformers, isolation barriers, PLC
FH560-CP	Cast iron, aluminium alloy or stainless steel	Control panel containing terminals, relays, timers, contactors, motor starters and separately certified Govan Modules
F560-A2	Cast aluminium alloy	Instrument control panel containing relays, timers, contactors, PLC and separately certified Govan Modules
FH560-A2	Cast iron or stainless steel	Instrument control panel containing relays, timers, contactors, PLC and separately certified Govan Modules
FH560-CB	Cast iron, aluminium alloy or stainless steel	Main isolator and control board containing circuit breakers, load break or isolating switches



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The following Govan components may be fitted:

1. MNH-1, 2, 3, 4, 5 & 8 – Push button module for Group IIB +Hydrogen applications.
2. MNH-9 – Indicator light module (andescent type) for Group IIB +Hydrogen applications.
3. MNH-11 – Indicator light module (LED transformer type) for Group IIB +Hydrogen applications.
4. SMH-- 10 Amp to 20 Amp & 20 Amp to 40 Amp switch module for Group IIB +Hydrogen applications.
5. MNH-7 - Plug module for Group IIB +Hydrogen applications.

Variation 1 - This variation introduced the following changes:

- i. To permit the removal of the Special Conditions of Safe Use, hence the Certificate number has been amended to remove the 'X' suffix.
- ii. To allow the Description of Equipment to be updated.
- iii. To permit an increase in ambient temperature to +55°C or +60°C hence, the maximum power dissipation values are now detailed in the Description of Equipment, the Marking was amended accordingly.

Variation 2 - This variation introduced the following change:

- i. The Applicants name and address was changed from Govan Industries Pty Ltd, 131-149 Link Drive, Campbellfield, Victoria, 3061, Australia to that currently shown in Sections 5 and 6 above.

Variation 3 - This variation introduced the following changes:

- i. The Notified Body number, responsible for quality, was changed to 0102.
- ii. The alternative manufacturing locations were removed from the description as they are now covered by the statement in section 6 of the certificate.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	25 September 2007	R51A16570G	The release of the prime certificate.
1	5 September 2012	R27449A/00	The introduction of Variation 1.
2	10 July 2013	R30253A/00	The introduction of Variation 2.
3	01 February 2017	R70089891A	This Issue covers the following changes: <ul style="list-style-type: none">• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (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. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)• The introduction of Variation 3.

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Issue	Date	Report number	Comment
4	15th October 2019	1029	<ul style="list-style-type: none">Transfer of certificate Sira 07ATEX1137 from Sira Certification Service to CSA Group Netherlands B.V..

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

Certificate Annexe



Certificate Number: Sira 07ATEX1137

Equipment: F560 & FH560 Range of Flameproof Enclosures

Applicant: Pepperl+Fuchs GmbH (orporating the Govan brand)

Issue 0

Drawing No:	Sheets	Rev.	Date	Description
C1925	1 of 1	4	11 Apr 07	Ex d IIB +Hydrogen T6 IP66 FH560-CP
C1929	1 of 1	5	04 Apr 07	Ex d IIB +Hydrogen T6 IP66 FH560
C1935	1 of 1	5	21 Feb 07	Ex d IIB +Hydrogen T6 IP66 FH560 Machine details
C1946	1 of 1	4	11 Apr 07	Ex d IIB +Hydrogen T6 IP66 FH560-CB
C1949	1 of 1	7	07 Sep 07	Ex d IIB +Hydrogen T6 IP66 FH560-JB
C2019	1 of 1	5	02 May 07	Ex d IIB +Hydrogen T6 IP66 FH560-A2
C3840	1 to 4	2	11 Apr 07	Equipment Listing
C5122	1 and 2	3	15 Dec 06	Ex d IIB +Hydrogen T6 IP66 Certified Enclosures
C5122	3 of 4	5	15 Dec 06	Ex d IIB +Hydrogen T6 IP66 Certified Enclosures
C5122	4 of 4	4	15 Dec 06	Ex d IIB +Hydrogen T6 IP66 Certified Enclosures
C0774	1 of 1	9	15 Dec 06	Ex d IIB T6 IP66 Certified Enclosures
C10155	1 of 1	1	21 Feb 07	General Assembly

Issue 1

Drawing No:	Sheets	Rev.	Date (Sira Stamp)	Description
C1949	1 of 1	10	31 Aug 12	Ex d IIB +Hydrogen T6 IP66 FH560-JB

Issue 2

Drawing No:	Sheets	Rev.	Date (Sira Stamp)	Description
GC 0652	1 to 2	1	28 May 13	Compliance Name Plate detail for company name change

Issue 3

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