


# 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: Presafe 16 ATEX 8586X Issue 0
- [4] Product: Gas Turbine IS-130 Ignition System
- [5] Manufacturer: Champion Aerospace LLC
- [6] Address: 1230 Old Norris Road,  
Liberty, SC 29657-0686, USA
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460, 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 reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012+A11:2013 and EN 60079-1:2014
- [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 db IIB+H2 T5 Gb,  $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +85^{\circ}\text{C}$

  
Asle Kaastad  
For DNV Nemko Presafe AS  
Information on electronic signature [www.presafe.com](http://www.presafe.com)



Date of issue: 2017-11-15

*This certificate may only be reproduced in its entirety and without any change, schedule included.*

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[13]

## Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE No.:** Presafe 16 ATEX 8586X Issue 0

[15] **Description of Product**

The ignition exciter is contained within an Ex d aluminium enclosure containing a dual solid state ignition switching device. The Ignition Exciter enclosure is supplied with compatible output adaptors for connection to Champion ignition leads and ignitors (spark plugs) for gas turbine engine. The coaxial leads comprise of a central conductor, high voltage insulation and a nickel iron conduit which is further protected within a woven stainless steel jacket.

This is an update to a previous certificate DNV 06 ATEX 0369X Revision 2.

### Type designation and Electrical Data

#### IS-130 Ignition System

Description	Part Number	Electrical Data	
Exciter	305136	Input Voltage:	18 – 28 VDC
		Input Current:	2.5A (max) 1.6A (nominal)
		Power Consumption:	60W (peak) 32W Average
Adaptor	CH71012		
Ignition Lead	53363-DS		
Ignitors (Spark Plugs)	CH34736-1		
	CH38922		
	CH38923		

#### Degrees of protection (IP Code):

IP66

#### Ambient temperature:

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +85^{\circ}\text{C}$

#### Routine tests

Manufacturer shall perform a routine pressure test on all Ignition Leads at a minimum of pressure of 15bar for 1 minute.

[16] **Project No.:** PRJC-183508-2009-PRC-USA

[17] **Specific Conditions of Use**

The connection to the Ignitor must not be opened when the equipment is energized.

Input power cable and associated cable gland shall be rated for continuous operation at  $+85^{\circ}\text{C}$  or higher.

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Presafe 16 ATEX 8586X, Issue 0

## [18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

## [19] Drawings and documents

Number	Title	Rev.	Date
IS-130	305136 Schedule drawing	G	2017-10-25
503758	Schedule Installation Instructions and Operating Guide	-	2017-03-30

## [20] Certificate History

Issue	Description	Report no.	Issue date
0	Initial issue	2016-3208	2017-11-15

END OF CERTIFICATE