



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 15ATEX2014** Issue: **1**

4 Equipment: **1360 IS II Anemometer, Part No. 1360-00-097**

5 Applicant: **Gill Instruments Ltd**

6 Address: Saltmarsh Park
67 Gosport St
Lymington SO41 9EG
UK

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

8 Sira Certification Service, notified body number 0518 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 60079-0:2012/A11:2013 EN 60079-11:2012 IEC 60079-26:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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 1GD
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Tamb = -30°C to +70°C

Project Number 70075853

This certificate and its schedules may only be reproduced in its entirety and without change.

N Jones
Certification Manager

Sira Certification Service

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SCHEDULE

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Sira 15ATEX2014
Issue 1

13 DESCRIPTION OF EQUIPMENT

The 1360 IS II Anemometer, Part No. 1360 00 097, is an intrinsically safe unit with no moving parts that uses ultrasonic pulse time of flight in free air for the measurement of wind speed and direction at locations. The IS II Anemometer can be used in conjunction with a PC, data logger or other device, compatible with and isolated by the approved IS Power Supplies associated with this device.

The equipment comprises; four transducer arms attached to a stainless steel enclosure that houses printed circuit board, piezo electric transducers and connector, all of which are completely encapsulated within the enclosure.

External electrical connections are made to a twenty way connector located in the base of the apparatus.

The Anemometer is designed to connect to the intrinsically safe outputs of the I.S. WindObserver Power Supply Unit 1360 (certificate number Sira 00ATEX2217) or LV PCI Unit 1954-00-002 (certificate number Sira 13ATEX2384).

Input Parameters:

U_i = 11.55 V I_i = 162 mA P_i = 417 mW C_i = 0 L_i = 0

Variation 1 - This variation introduced the following changes:

- i. Allow modification of the component part number for TR9.
- ii. Allow modification of the part number for the transducer disc.

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 March 2015	R70015853A	The release of the prime certificate.
1	26 May 2016	R70075853A	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. <i>(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.)</i>• The introduction of Variation 1.

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Sira Certification Service

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- 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.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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Certificate Annexe



Certificate Number: Sira 15ATEX2014
Equipment: 1360 IS II Anemometer, Part No. 1360-00-097
Applicant: Gill Instruments Ltd

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
1360-C-070	1 of 1	01	12 Mar 15	Windobserver II – GPA - IS Circuit Diagram
1360-10-070	1 to 4	01	12 Mar 15	PCB Assembly Bill Of Materials
1360-10-080	1 of 1	01	12 Mar 15	I.S. 2 Axis Transducer Arm Assembly
1360-10-082	1 of 1	01	12 Mar 15	Type IIC I.S. Anemometer with Alternative PCB
1360-10-083	1 of 1	01	12 Mar 15	I.S. WOII Potting Areas Diagram
1360-30-070	1 to 8	01	12 Mar 15	PCB Artwork
1360-M-040	1 of 1	10	12 Mar 15	Housing Tube Printed Marking Drawing

Issue 1

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
1360-10-070	1 to 4	02	09 May 16	PCB Assembly Bill Of Materials
1360-10-080	1 of 1	02	09 May 16	I.S. 2 Axis Transducer Arm Assembly
1360-C-070	1 of 1	02	09 May 16	Windobserver II – GPA –IS Circuit Diagram

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