1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 00ATEX2218** Issue: **11**

4 Equipment: **Model 1360 I.S. Anemometer**

5 Applicant: **Gill Instruments Limited**

6 Address: Saltmarsh Park
67 Gosport Street
Lymington
Hampshire 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 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 60079-0:2012 EN 60079-11:2012 EN 60079-26:2007

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 1 GD
Ex ia IIC T4 Ga
Ex ia IIIC T135ºC Da IP66
(Ta = -30ºC to +70ºC)

Project Number 1580

Signed:

Title: Director of Operations

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 00ATEX2218**
Issue 11

13 **DESCRIPTION OF EQUIPMENT**

The Model 1360 I.S. Anemometer is designed to measure the speed of movement of the air (or other atmosphere) that passes between its ultrasonic transmitter receiver heads.

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

External electrical connections are made to a 20-way connector located in the base of the apparatus.

The apparatus is designed to connect to the intrinsically safe outputs of the I.S. WindObserver Power Supply Unit 1360, EC Type-Examination Certificate No. Sira 00ATEX2217 or to the intrinsically safe Anemometer supply out terminals of the Low Voltage I.S. Power and Communication Interface (LVPCI) Model 1954, EC Type-Examination Certificate No. Sira 13ATEX2384.

20-Way Connector:

Ui = 11.55V
Ii = 162mA
Pi = 0.417W
Ci = 0
Li = 0

Variation 1 - This variation introduced the following change:

i. To allow the addition of a damping compound to the encapsulating material

Variation 2 - This variation introduced the following changes:

i. To recognise the use of Loctite adhesive on the IIC I.S. PCB assembly.
ii. To allow resistor R30 value to be selected according to Transducer test results.
iii. To permit the use of an alternative fixing method to mount the I.S Electronic PCB assembly into the Head assembly.

Variation 3 - This variation introduced the following changes:

i. The recognition of minor drawing modifications; these changes are administrative and do not affect the aspects of the product that are relevant to explosion safety.

Variation 4 - This variation introduced the following changes:

i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 plus Amendments 1 and 2, EN 50020:1994, EN 50284:1999 and EN 50281-1-1:1998, were replaced by those currently listed and the markings in section 12 were updated accordingly and a condition was introduced.
ii. The ambient temperature range was changed from -20°C to +40°C to -30°C to +70°C.

Variation 5 - This variation introduced the following change:

i. To allow the 2-way sockets (x4) to be removed.

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

Variation 6 - This variation introduced the following change:

i. The potting/damping compound was replaced.

Variation 7 – This variation introduced the following changes:

i. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest technical knowledge, the documents originally listed in section 9, EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007 and IEC 61241-11:2005, were replaced by those currently listed, the markings in section 12 were updated accordingly and the Condition of Certification was modified to recognise the application of the latest standards.
ii. A new label was allowed to be fitted; this label recognises the additional marking required for the IECEx certification also associated with these products.
iii. The recognition of minor drawing changes that are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.

Variation 8 - This variation introduced the following change:

i. The product description was amended to make reference to the certified Low Voltage I.S Power and Communication Interface model 1954 (Sira 13ATEX2384).

Variation 9 - This variation introduced the following change:

i. The introduction of new drawings that allow the 1360 IS Anemometer to be repaired using approved parts from the 1360 IS II Anemometer which has been certified under Sira 15ATEX2014.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report/File No.	Comment
0	19 December 2000	R52A7045A	The release of the prime certificate.
1	8 March 2001	52V7590	Re-issued to permit the list of certified drawings to be amended.
2	17 September 2002	52V9265	The introduction of Variation 1.
3	4 September 2007	R52A17115A	The introduction of Variation 2.
4	22 October 2009	R21033A	This Issue covers the following changes: • All previously issued certification was rationalised into a single certificate, Issue 4, Issues 0 to 3 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format. • The introduction of Variation 3.
5	4 March 2010	R21571A/00	The introduction of Variation 4.
6	19 October 2011	R25877A/00	The introduction of Variation 5.
7	23 October 2013	R31627A/00	The introduction of Variation 6.
8	29 January 2014	R32100A/00	The introduction of Variation 7.
9	10 March 2014	R32340B/00	The introduction of Variation 8.

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 00ATEX2218**
Issue 11

Issue	Date	Report/File No.	Comment
10	20 July 2015	R70035012A	The introduction of Variation 9
11	15th October 2019	1580	• Transfer of certificate **Sira 00ATEX2218** from Sira Certification Service to CSA Group Netherlands B.V.. • 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.)*

15 **SPECIAL CONDITIONS FOR SAFE 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.

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

Certificate Annexe

Certificate Number: **Sira 00ATEX2218**

Equipment: **Model 1360 I.S. Anemometer**

Applicant: **Gill Instruments Limited**

Issue 0 to 8 (The drawings listed with these Issues were rationalised and have been superseded by those detailed in Issue 5)

Issue 8

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
1360-10-032	1 of 1	01B	10 Jan 14	I.S. 2 ANEMOMETER BASE INTERFACE PCB ASSY
1360-M-040	1 of 1	06	29 Jan 14	Housing Tube Printed
1360-G-025	1 of 1	3	17 Oct 13	Type IIC IS Anemometer
1360-G-026	1 of 1	1	08 Dec 00	Type IIC IS Anemometer Dimensions
1360-G-019	1 of 1	3	17 Oct 13	IS 2 Axis Transducer Arm Assembly
1360-00-021	1 of 1	04	17 Oct 13	IIC I.S. Anemometer Final Assembly
1360-10-020	1 of 1	07	17 Oct 13	I.S. 2 Axis Head Assy
1360-10-034	1 of 1	03	16 Oct 09	I.S. Transducer Assy
1360-C-032	1 of 1	1	26 Jun 00	IS Anemometer SM Base Interface Board
1360-T-032	1 of 1	1	06 Dec 00	IS Anemometer Base PCB Tracking Details
1360-C-010	1 of 1	3B	28 Aug 07	IIC I.S. PCB AssemblyCircuit Diagram
1360-10-010	1 to 3	3C	28 Aug 07	IIC I.S. PCB Assembly Parts List

Issue 9 No new drawings were introduced.

Issue 10

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
1360-10-091	1 of 1	01	15 Jul 15	I.S Anemometer Repaired – General Assembly
1360-30-089	1 of 1	01	13 Jul 15	Housing Tube Engraved Repaired – Marking Drawing
1360-C-070	1 of 1	01	15 Jul 15	Windobserver II – GPA - IS Circuit Diagram
1360-10-070	1 to 4	01	15 Jul 15	PCB Assembly Bill Of Materials
1360-10-080	1 of 1	01	15 Jul 15	I.S. 2 Axis Transducer Arm Assembly
1360-10-082	1 of 1	01	15 Jul 15	Type IIC I.S. Anemometer with Alternative PCB
1360-10-083	1 of 1	01	15 Jul 15	I.S. WOII Potting Areas Diagram
1360-30-070	1 to 8	01	15 Jul 15	PCB Artwork

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