

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.lecex.com

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Certificate No.:	IECEx SIR 13.0156	issue No.:4	Certificate history: Issue No. 4 (2017-6-5)		
Status:	Current		Issue No. 3 (2017-3-27) Issue No. 2 (2016-10-		
Date of Issue:	2017-06-05	Page 1 of 5	13) Issue No. 1 (2015-3-16)		
Date of issue.	2017-00-03		Issue No. 0 (2014-2-5)		
Applicant:	Gill Instruments L 67 Gosport Street Lymington Hampshire S041 9E0 United Kingdom				
Equipment: Optional accessory:	I.S. WindObserver F	Power Supply Unit 1360			
Type of Protection:	Intrinsically Safe and Dust				
Marking:	[Ex ia Ga] IIC [Ex ia Da] IIIC Ta = -30°C to +6	0°C			
Approved for issue on Certification Body:	pehalf of the IECEx	N Jones			
Position:		Certification Manager			
Signature: (for printed version)		n. Jones .			
Date:		2017-06-05			
2. This certificate is not	chedule may only be rep transferable and remain enticity of this certificate	produced in full. Is the property of the issuing body. may be verified by visiting the Official f	ECEx Website.		
Unit 6, Ha Hawarde	Certification Service CSA Group warden Industrial Park en, Deeside, CH5 3US nited Kingdom		CSA Group		



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Certificate No.:

Date of Issue:

IECEx SIR 13,0156

2017-06-05

Manufacturer:

Gill Instruments Ltd 67 Gosport Street Lymington Hampshire S041 9EG United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

 IEC 60079-0: 2011
 Explosive atmospheres - Part 0: General requirements

 Edition: 6.0
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

 Edition: 6.0
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report: GB/SIR/ExTR14.0018/00 GB/SIR/ExTR17.0054/00

GB/SIR/ExTR15.0071/00 GB/SIR/ExTR17.0106/00 GB/SIR/ExTR16.0260/00

Quality Assessment Report:

GB/SIR/QAR10.0007/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The I.S. WindObserver Power Supply Unit 1360 is designed to provide an intrinsically safe supply and signal connections to a model 1360 I.S. Anemometer certified as IECEx SIR 13.0157. The equipment comprises a printed circuit board that accommodates: an intrinsically safe transformer, opto isolators and voltage clamping, current and power limiting circuitry. A DIN rail accommodates the terminals. The PCB and terminals are housed inside a metal enclosure that affords a degree of ingress protection of at least IP20. The connections to the certified Anemometer are made via connector J2 to DIN rail mounted terminals 21 to 26.

Non-Hazardous area connections

Terminals marked E, L and N and Terminals 1 to 20:

Um = 250 Vrms

Terminals 1 to 20 enable the equipment signal circuits to connect to low power RS422 and RS232 non-hazardous area circuits respectively.

Refer to EQUIPMENT (Continued) for additional information

SPECIFIC CONDITIONS OF USE: NO



Group	Capacitance (µF)	Inductance (µH)	L/R Ratio (µH/W)
IIC	1.59	800	90
IIB	10.8	3200	360
	43	6400	720

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The Power supply unit transformer, T1, is subject to routine tests at voltages of 2500 V between input and output windings, 1000 V rms between windings and core, and 1500 V between the winding supplying I.S. circuit and the other output winding, in accordance with clause 11.2 of IEC 60079-11:2011.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 - this Issue introduced the following change:

1. To recognise that the IS WindObserver Power Supply Unit 1360 may be used with either the Model 1360 IS Anemometer (IECEx SIR 13.0157) or IS II Anemometer Part 1360-00-097 (IECEx SIR 15.0013).

Issue 2 - this Issue introduced the following change:

1. Upgrade the upper ambient certified temperature from +40°C to +60°C. No changes have been made to the products. Issue 3 – this Issue introduced the following change:

1. Circuit diagram 1360-C-009 has been modified to mark resistors R44 and R46 as "MUST NOT FIT".

2. Parts list 1360-10-003 has been modified to include R45 (zero ohm link).

Terminals T19 and T20 have been moved to the safe area side of the terminal rail. Wiring label drawing 1360-30-039 has been modified to reflect this change. The description was amended accordingly.

Issue 4 - this Issue introduced the following change:

1. Cover Plate drawing 1360-M-037 has been modified to add a note regarding surface of cover plate being free of scratches. No changes have been made to the products.