



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx CES 12.0012X	issue No.:	1	Certificate history: Issue No. 1 (2015-6-26) Issue No. 0 (2012-6-8)
Status:	Current			
Date of Issue:	2015-06-26	Page 1 of 5		
Applicant:	GAMA S.r.l. via Milano, 76 I - 23899 Robbiate (LC) Italy			
Electrical Apparatus: Optional accessory:	Probe for viscosity detector, type G26-RIV-Vxx and type RIV-Vxx			
Type of Protection:	Intrinsic Safety "ib"			
Marking:	Ex ib IIB T5 Gb			
Approved for issue on behalf of the IECEx Certification Body:	Mirko Balaz			
Position:	Head of IECEx CB			
Signature: (for printed version)	_____			
Date:	_____			

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy



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Manufacturer:	GAMA S.r.l. via Milano, 76 I - 23899 Robbiate (LC) Italy		
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		
IEC 60079-11 : 2011	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I" Edition: 6.0		
<i>This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.</i>			
TEST & ASSESSMENT REPORTS:			
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in			
<u>Test Report:</u> IT/CES/ExTR12.0008/00			

[IT/CES/ExTR12.0008/00](http://CES/ExTR12.0008/00)

Quality Assessment Report:

IT/CES/QAR09.0004/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Probe type G26-RIV-Vxx and type RIV-Vxx for viscosity detector, are a permanently mounted devices powered by associated apparatus.
 The circuit of the piezoelectric is grounded on the frame and the connection to the external circuit must be made via associated apparatus galvanically isolated.
 The probe consists of a piezoelectric transducer that detects the variation of the resonance frequency of a metallic rod dipped in process fluid which we want to measure the viscosity.

CONDITIONS OF CERTIFICATION: YES as shown below:

The accessories used for cable entry shall be subject of separate certification and shall ensure a minimum degree of protection IP54.
 The process fluid shall have a temperature range from -20°C to +55°C and a pressure range from -1 bar to 10 bars.
 The circuit of the piezoelectric should be connected with associated equipments galvanically isolated.



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EQUIPMENT(continued):

Electrical characteristics

- Degree of protection: IP 54
- Ambient temperature and process fluid temperature: -20°C + 55 °C
- Intrinsically safe circuits:

Piezoelectric transducer (terminals 1-2):		Thermistor (terminals 3-4):	
- Probe type: G26-RIV-Vxx	RIV-Vxx	- Probe type: G26-RIV-Vxx	RIV-Vxx
- Supply/signal: 0 + 24 V	0 + 24 V	- Supply/signal: 0 + 12 V	0 + 12 V
- Ui: 25,2 V	25,2 V	- Ui: 12,6 V	12,6 V
- Ii: 100 mA	100 mA	- Pi: 0,042 W	0,042 W

- Pt:	0,63 W	0,63 W	- Ci:	0	0
- Ci:	640 pF	26 nF	- Li:	0	0
- Li:	0	0			



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

Variation 1

Variation 1.1
Adding new probe type RIV-Vxx with new constructional characteristics, use of new components and new electrical characteristics.

Variation 1.2
The probe type G26-RIV-Vxx and type RIV-Vxx, originally assessed in compliance with IEC 60079-0: 2007, have been reassessed on the basis of the IEC 60079-0: 2011 standard.
No difference between the two standards affects the design of the probes.