

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 SIR 06.0107	issue No.:3	Certificate history: Issue No. 3 (2015-1-28)		
Status:	Current		Issue No. 2 (2013-6-10) Issue No. 1 (2007-4-12)		
Date of Issue:	2015-01-28	Page 1 of 6			
Applicant:	Gas Measurements Ins Inchinnan Estate Renfrew PA4 9RG United Kingdom	struments Ltd			
Electrical Apparatus: Optional accessory:	V!SA Gas Surveyor/PS500 Gas Surveyor				
Type of Protection:	Intrinsic Safety and Flameproof				
Marking:	Ex iad IIC T4 When fitted with the Alkaline Non-Rechargeable Battery Pack Ex iad IIC T3 When fitted with either the Long Duration Rechargeable Battery Pack, the Slimline Rechargeable Battery Pack or the Fast Charge Rechargeable Battery Pack				
Approved for issue on behalf of the IECEx C Ellaby Certification Body:					
Position:		Deputy Certification Manager			
Signature: (for printed version) Date:		C. 2015-01-29	6)		
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website. 					
Certificate issued by:					
Rake Lane Eccleston Chester CH4 9JN United Kingdom			SITA ERTIFICATION		

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Manufacturer:	Gas Measurements Instruments Inchinnan Estate Renfrew PA4 9RG United Kingdom	s Ltd		
Additional Manufacturing (s):	location			
This certificate is issued a found to comply with the covered by this certificate certificate is granted subj as amended.	as verification that a sample(s), representative o IEC Standard list below and that the manufactur e, was assessed and found to comply with the IE ect to the conditions as set out in IECEx Schem	f production, was assessed and tested and rer's quality system, relating to the Ex products ECEx Quality system requirements. This e Rules, IECEx 02 and Operational Documents		
STANDARDS: The electrical apparatus a documents, was found to	and any acceptable variations to it specified in the comply with the following standards:	ne schedule of this certificate and the identified		
IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmo	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements		
IEC 60079-1 : 2003	Electrical apparatus for explosive gas atmo	spheres - Part 1: Flameproof enclosure 'd'		
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmo	spheres - Part 11: 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/ExTR06.0116/00 GB/SIR/ExTR13.0111/00) GB/SIR/ExTR07.0025/00) GB/SIR/ExTR14.0316/00	GB/SIR/ExTR07.0026/00		
Quality Assessment Rep	ort:			
GB/SIR/QAR06.0031/00				



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MENT(continued) ditions of manufac Manufacturer shall Only the follow below:	: comply with the following: <i>v</i> ing, permitted sensors shall be fitted to t	he specific PCB of the Gas	s Surveyor as defined
An IRceL® CO	2 Manufactured by City Technology	66196 Issue 4	
An IR1xxx Set	No. Sira 04ATEX1084X	66196 Issue 4	
Ltd, Certificate	No. Sira 99ATEX1121U		
(Gas Sensing	Head)	66064 Issue 1 & 2	
The pump fitter Faulhaber and The battery pa	d in the VISA Gas Surveyor shall be a type has an inductance of 60 μH with a resista cks shall only be fitted with the following th	e no. 1016006G pump that ince of 20.1 Ω (± 12%) at 20 press of cells:	is manufactured by 0°C.
Cell specificati	on	Cell type	Battery pack type
3 Sony AA or 3	3 Energizer no. E91 or 3 Duracell/Procell	Non-rechargeable	Alkaline
3 Energizer no	. NH15	Rechargeable, nickel	Long Duration
3 Varta type V	H 1350 F9	Rechargeable, nickel	Slimline
3 Energizer no	. NH15	Rechargeable, nickel	Fast Charge
The manufactu requirements fi certificate.	irer shall take all reasonable steps to ensu or battery packs and cells that are stipulat	ire that the user of this prod ed on the product label and	uct complies with all the in the schedule of this



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

Original o	Original dated 2006-11-20		
Issue 1			
1	To permit the use of the Shock Resistant (SR) Flammable Sensor Assembly (Gas Sensing Head).		
2	To recognise that the VISA gas detectors meet the requirements of IEC 61779-1 and IEC 61779-4 Performance Requirements.		
Issue 2			
1	To permit the addition of a carrier PCB to accommodate the change of component U7 (ST3222) from a S018 package to a TSSOP020 package.		
2	The assessment standards IEC 61779-1 and IEC 61779-4 have been removed at manufacturer's request.		
3	The clarification and correction of the marking and standards detailed in the Certificate of Change Issue 1.		
Issue 3			
1	The circuit board (66560 SCH+) and assembly (66560A) were modified.		
2	The introduction of the alternative equipment name/ model number, "PS500 Gas Surveyor".		
3	The Condition of Certification specifying suitable sensors was clarified.		



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Additional information:

The battery pack comprises electronic components mounted on a printed circuit board (PCB) and 3 series connected cells; these are all housed in a plastic enclosure. The battery pack is attached to the gas measuring part by a 6 pin connector and mechanically secured by a single tamper resistant fixing. The battery pack can be fitted with non-rechargeable cells or with rechargeable nickel metal hydride (NiMH) cells.

Non-rechargeable cells and their associated battery pack shall only be replaced in a non-hazardous area; the permitted non-rechargeable cells are:

Battery pack type	Cell specification				
Alkaline	3 Sony AA or 3 Energizer no	3 Sony AA or 3 Energizer no. E91 or 3 Duracell/Procell AA			
Replacement or charging of the nickel metal hydride battery packs is only permitted in a non-hazardous area; the permitted rechargeable cells are:					
Battery pack type	Cell specification	Charging specification			
Slimline	3 Varta type VH 1350 F9	To be charged by a charger that has a maximum output voltage of 9.9 V			
Long Duration	3 Energizer no. NH15	To be charged by a charger that has a maximum output voltage of 9.9 V			
Fast Charge	3 Energizer no. NH15	To be charged by			