



# 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](http://www.iecex.com)

Certificate No.: **IECEX SIR 06.0025X** issue No.: **1** History: \_\_\_\_\_

Status: **Current**

Date of Issue: **2007-04-26** Page 1 of 4

Applicant: **Pulsar Process Measurement Ltd.**  
Cardinal Building  
Enigma Commercial Centre  
Sandy's Road  
Malvern  
Worcestershire WR14 1JJ  
United Kingdom

Electrical Apparatus: **IMP 3 i.s., 6 i.s. and 10 i.s. Loop Powered**  
Optional accessory: **Ultrasonic Level Measurement Devices**

Type of Protection: **Intrinsic safety**

Marking: **Ex ia IIC T4 (Tamb = -40°C to +80°C)**

Approved for issue on behalf of the IECEX Certification Body: **D R Stubbings**

Position: **Certification Manager**

Signature: \_\_\_\_\_  
(for printed version)

Date: **2007-04-26**

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](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
South Hill  
Chislehurst  
Kent BR7 5EH  
United Kingdom

**sira**  
CERTIFICATION



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Manufacturer: **Pulsar Process Measurement Ltd.**  
Cardinal Building  
Enigma Commercial Centre  
Sandy's Road  
Malvern, Worcestershire, WR14 1JJ  
**United Kingdom**

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 : 2004**      Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 4.0  
**IEC 60079-11 : 1999**      Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'  
Edition: 4

*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/ExTR06.0044/00](#)  
[GB/SIR/ExTR07.0029/00](#)

Quality Assessment Report:  
[GB/SIR/QAR06.0030/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The IMP series of ultrasonic level measuring devices are designed as 4-20mA loop powered level measurement sensors used in level measurement systems. The sensors in the series differ only in the size of transducer crystal, the Ping board population and the housing used.

The equipment comprises two printed circuit boards and a piezo electric crystal transducer all housed inside a plastic enclosure and then totally encapsulated, plus an unencapsulated display board and keypad.

A terminal block provides the connection facilities to the external circuits.

The models included in the range are described as follows: IMP3 i.s., IMP6 i.s. and IMP10 i.s. The numbers 3, 6 and 10 relate to the maximum measurable distance in metres.

The equipment has been assessed with the following input parameters:

Ui	=	28 V
Ii	=	162 mA
Pi	=	1.03 W
Ci	=	0
Li	=	0

### CONDITIONS OF CERTIFICATION: YES as shown below:

- 1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, when it is used for applications that specifically require group II, zone 0, equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.



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

<b>Original dated 2006-05-18</b>	
<b>Issue 1 dated 2007-04-26</b>	
1	The addition of Resistor R13 and the option to fit a diode D9. Change of applicant and manufacturer name and address. Was: Harmac House Chequers Close Enigma Business Park Malvern, Worcestershire, WR14 1GP

