



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.: issue No.: Certificate history:

Status:

Date of Issue: **2012-11-20** Page 1 of 4

Applicant: **Enraf B.V.**
Delftechpark 39
2628 XJ Delft
The Netherlands

Electrical Apparatus: **SVP Controller**
Optional accessory:

Type of Protection: **Ex d [ia]**

Marking: **Ex d [ia] IIB T4 Gb**
Ta -40 °C to +65 °C


Approved for issue on behalf of the IECEx
Certification Body:

C.G. van Es

Position:

Certification Manager

Signature:
(for printed version)



Date:

2012-11-20

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:

DEKRA Certification B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands

All testing, inspection, auditing and certification activities of
the former KEMA Quality are an integral part of the DEKRA
Certification Group.





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Manufacturer: **Honeywell Enraf Americas Inc.**
2000 Northfield Court
Roswell, GA 30076-4908
United States of America

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 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

IEC 60079-11 : 2011-06 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*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:
[NL/DEK/ExTR12.0071/00](#)

Quality Assessment Report:

[FR/LCI/QAR09.0016/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The SVP Controller is the main control unit for the Calibron® Small Volume Prover (SVP).

It provides the following functionality:

- Interfaces to an external flow computer to measure the flow through the SVP
- Detects activation of optical switches indicating the volume of flow through the SVP
- Controls power to the return drive motor
- Detects the return drive motor stop switch

Ambient temperature range -40 °C to +65 °C.

CONDITIONS OF CERTIFICATION: YES as shown below:

- For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
- The special fasteners for the cover are property class A2-70 or better.



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EQUIPMENT(continued):

Electrical data

Power supply (Mains input):
88 - 240 Vac, 50/60 Hz or 24 Vdc, 10.6 W maximum

LAD interface circuit (LAD front connector):
in type of protection intrinsic safety Ex ia IIB, with the following maximum values:
 $U_o = 15.75 \text{ V}$; $I_o = 1.7 \text{ A}$; $P_o = 2.45 \text{ W}$; $C_o = 2.69 \mu\text{F}$; $L_o = 15 \mu\text{H}$.
The continuous output current of the LAD interface circuit is limited to 160 mA.

Switch interface circuits:
in type of protection intrinsic safety Ex ia IIB, with the following maximum values:
 $U_o = 7.9 \text{ V}$; $I_o = 531 \text{ mA}$; $P_o = 1.0 \text{ W}$; $C_o = 100 \mu\text{F}$; $L_o = 100 \mu\text{H}$.
The factory wired switches may be connected to this circuit.