



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 SEV 13.0010 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2014-7-7)
Issue No. 0 (2014-1-10)

Date of Issue: **2014-07-07** Page 1 of 5

Applicant: **Jumo Mess- und Regeltechnik AG**
Laubisrütistrasse 70
CH-8712 Stäfa
Switzerland

Electrical Apparatus: **RTD and thermocouple temperature probes**
Optional accessory:

Type of Protection: **Intrinsic safety "ia" resp. "ib"**

Marking: Ex ia IIC T6...T1 Ga/Gb resp. Ex ia IIC T6...T1 Gb
Ex ia IIIC T xx °C Da/Db resp. Ex ia IIIC T xx °C Db

Approved for issue on behalf of the IECEx Certification Body: Martin Plüss

Position: Manager Product Certification

Signature:
(for printed version)

Date:

2014-07-07

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:
Electrosuisse div. Testing and Certification
Luppenstrasse 1
CH-8320 FEHRALTORF
Switzerland

electrosuisse





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Manufacturer: **Jumo Mess- und Regeltechnik AG**
Laubisrütistrasse 70
CH-8712 Stäfa
Switzerland

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 Edition: 6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-11 : 2011 Edition: 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-26 : 2006 Edition: 2 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga |

*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:

[CH/SEV/ExTR13.0012/01](#)

Quality Assessment Report:

[CH/SEV/QAR13.0005/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

RTD and thermocouple temperature probes for temperature measurement in liquid and gaseous media, as well as for dusts.

Type B 901xxx.x.x and B 902xxx.x.x

CONDITIONS OF CERTIFICATION: NO





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

Additional versions with separation elements.





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Additional information:

RTD and thermocouple temperature probes from JUMO are used as intrinsically safe equipment for temperature measurement in liquid and gaseous media, as well as for dusts. The thermometers consist of a protection fitting with various process connection options, a terminal head or a connecting cable, and an interchangeable measuring insert (depending on the type). All fittings in contact with the process media undergo a leakage test. The Pt100 temperature sensors mounted in the fittings are to EN 60751, in tolerance classes A or B, in a 2-, 3-, or 4-wire circuit. It is also possible to use these sensors with a higher reference value (Pt500; Pt1000; Pt2000; Pt5000 as well as NTC, PTC). Versions with two or three measurement circuits can be provided. A separate ATEX certified head transmitter is or can be installed in the connection head and/or a separate ATEX certified display can be fitted. They must be connected to a certified intrinsically safe circuit.

The thermometers fulfil the requirements for Explosion Group II in Categories 1 G and 1 D as well as 2 G and 2 D. They are thus suitable for use in areas with an explosion hazard: Zone 1 or Zone 2 with gas (Gas) and Zone 21 or 22 with dust (Dust). Depending on the circumstances, it may be permissible for the probe stem to protrude into the Zone 0 or 20 area (only for "Ex ia" versions or "Ex ib" versions with separation elements).

