



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 TUN 16.0022X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2017-07-05** Page 1 of 3

Applicant: **JUMO GmbH & Co. KG**
Moritz-Juchheim-Straße 1
36039 Fulda
Germany

Equipment: **JUMO exTHERM-DR**
Optional accessory: **701055 / * - ***

Type of Protection: **Intrinsic safety**

Marking: **[Ex ia Ga] IIC**
[Ex ia Da] IIIC

Approved for issue on behalf of the IECEx
Certification Body:

Christian Roder

Position:

Deputy head of Certification Body

Signature:
(for printed version)


2017-07-07

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:





IECEx Certificate of Conformity

Certificate No.: IECEx TUN 16.0022X

Date of Issue: 2017-07-05

Issue No.: 0

Page 2 of 3

Manufacturer: **JUMO GmbH & Co. KG**
Moritz-Juchheim-Straße 1
36039 Fulda
Germany

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

*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:
DE/TUN/ExTR15.0047/00

Quality Assessment Report:

DE/TUN/QAR13.0005/04



IECEX Certificate of Conformity

Certificate No.: IECEx TUN 16.0022X

Date of Issue: 2017-07-05

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The JUMO exTHERM-DR mentioned above are either a microprocessor-based designed as a two point controller, in the following called controller. The controller has the task to regulate a channel. The device has to be mounted on a mounting rail outside the hazardous area. It has a universal input. The inputs can measure the resistance thermometer PT100/PT1000, temperature element and a 4...20 mA standard signal. The device has two relay outputs, one binary input and one analogue output with (0) 4...20 mA or (0) 2...10 V. The used universal input will be read out by the diagnostic-/display unit. For the visualization of the measured values, for configuration and for display of error reports a graphic display and LED are available. The device can be configured with a PC- program about a USB interface. The connection of the sensors, of the relays, of the binary inputs, of the analogue output and of the power supply is via printed circuit terminal for a cross section up to 2,5 mm².

For all other data see attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The switching on the intrinsically safe circuits may be performed only if the JUMO exTHERM-DR including all supply lines is de-energized.
2. To energize the JUMO exTHERM-DR including all supply lines, the protective cap of the intrinsically safe circuits shall be correctly mounted.
3. The sensors listed under the specifications of JUMO GmbH & Co KG based on the JUMO-datasheet 901006 and 902006 have no safe isolation to the armature. The sensor connections are therefore to be considered as grounded for the safety assessment. This means that the user must ensure in case of connection of the intrinsically safe circuit to the local potential (eg PA resp. FB) that the intrinsic safety of the JUMO exTHERM-DR is not repealed.
4. The sensor connection heads do not meet the requirements of the material composition of IEC 60079-0:2011 for applications that require devices of category 1. The device has to be installed in such a way that any ignition hazards caused by impact or friction can be excluded".

Annex: 17 217 192795_Attachment to IECEx TUN 16.0022X.pdf