



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 EPS 17.0075X

Issue No: 0

Certificate history:

[Issue No. 0 \(2017-10-24\)](#)

Status: **Current**

Page 1 of 6

Date of Issue: **2017-10-24**

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

Equipment: **Temperature transmitter type dTRANS T07**

Optional accessory:

Type of Protection: **ia/ ib**

Marking:

Ex ia IIC T6...T4 Ga (Head)

Ex ia IIC T6...T4 Gb (Head)

Ex ib [ja Ga] IIC T6...T4 Gb (DIN Rail)

*Approved for issue on behalf of the IECEx
Certification Body:*

Holger Schaffer

Position:

Head of Certification

*Signature:
(for printed version)*

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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





IECEX Certificate of Conformity

Certificate No: IECEx EPS 17.0075X Issue No: 0

Date of Issue: **2017-10-24** Page 2 of 6

Manufacturer: **Jumo GmbH & Co. KG**
Moritz-Juchheim-Straße 1
36039 Fulda, Germany
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/EPS/ExTR17.0069/00](#)

Quality Assessment Report:

[DE/TUN/QAR13.0005/04](#)



IECEX Certificate of Conformity

Certificate No: IECEx EPS 17.0075X

Issue No: 0

Date of Issue: 2017-10-24

Page 3 of 6

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The temperature transmitter type dTRANS T07, is a two wire transmitter with analogue output. It has measuring input circuits for resistance thermometers (RTD) in 2-, 3- or 4-wire connection, thermocouples and voltage transmitters.

The equipment is intended for the application inside the explosion hazardous area.

The DIN Rail version is intended to be installed in control cabinets.

Electrical data:

Head transmitter:

Power supply

(terminals + and -)	$U_i \leq 30V$ DC
	$I_i \leq 130$ mA
	$P_i = 800$ mW
	$C_i =$ negligibly small
	$L_i =$ negligibly small

Sensor circuit

(terminal 3 to 7)	$U_o \leq 7.6V$ DC
	$I_o \leq 13$ mA
	$P_o \leq 24.7$ mW

Max. connection values

Ex ia IIC	$L_o = 10$ mH	$C_o = 1$ μ F
Ex ia IIB	$L_o = 50$ mH	$C_o = 4.5$ μ F
Ex ia IIA	$L_o = 50$ mH	$C_o = 6.7$ μ F



IECEX Certificate of Conformity

Certificate No: IECEx EPS 17.0075X

Issue No: 0

Date of Issue: 2017-10-24

Page 4 of 6

DIN Rail transmitter:

Power supply

(terminals + and -)	$U_i \leq 30V$ DC
	$I_i \leq 130$ mA
	$P_i = 770$ mW
	$C_i =$ negligibly small
	$L_i =$ negligibly small

Sensor circuit

(terminal 3 to 8)	$U_o \leq 9V$ DC
	$I_o \leq 13$ mA
	$P_o \leq 29.3$ mW

Max. connection values

Ex ia IIC	$L_o = 5$ mH	$C_o = 0.93$ μ F
Ex ia IIB	$L_o = 20$ mH	$C_o = 3.8$ μ F
Ex ia IIA	$L_o = 50$ mH	$C_o = 4.8$ μ F

Ambient temperature

Type (order option)	Temperature class	Ambient temperature	
		Zone 1/EPL Gb	Zone 0/ EPL Ga
dTRANS T07 B Ex	T6	$-50^{\circ}C \leq T_a \leq +58^{\circ}C$	$-50^{\circ}C \leq T_a \leq +46^{\circ}C$
	T5	$-50^{\circ}C \leq T_a \leq +75^{\circ}C$	$-50^{\circ}C \leq T_a \leq +60^{\circ}C$
Head transmitter	T4	$-50^{\circ}C \leq T_a \leq +85^{\circ}C$	$-50^{\circ}C \leq T_a \leq +60^{\circ}C$
without display			
dTRANS T07 B Ex	T6	$-40^{\circ}C \leq T_a \leq +55^{\circ}C$	



IECEX Certificate of Conformity

Certificate No: IECEx EPS 17.0075X

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Date of Issue: **2017-10-24**

Page 5 of 6

	T5	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
Head transmitter	T4	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$
with display (dTRANS T07 BD7)		
dTRANS T07 T Ex	T6	$-40^{\circ}\text{C} \leq T_a \leq +46^{\circ}\text{C}$
(DIN rail transmitter)	T5	$-40^{\circ}\text{C} \leq T_a \leq +61^{\circ}\text{C}$
	T4	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$



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Certificate No: IECEx EPS 17.0075X

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Page 6 of 6



SPECIFIC CONDITIONS OF USE: YES as shown below:

In hazardous areas it is not permitted to use the CDI interface of dTRANS T07 for configuration.