

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 17 ATEX 1 129 X

Revision 0

(4) Equipment: Temperature transmitter type dTRANS T07 T Ex DINrail
 Temperature transmitter type dTRANS T07 B Ex Head

(5) Manufacturer: Jumo GmbH & Co. KG

(6) Address: Moritz-Juchheim-Straße 1
 36039 Fulda
 Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH0362.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 1G Ex ia IIC T6...T4 Ga (Head)

II 2G Ex ia IIC T6...T4 Gb (Head)

II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb (DIN Rail)

Certification department of explosion protection

Nuremberg, 2017-10-24

H. Schäffer



(13)

Annex

(14) **EU - Type Examination Certificate EPS 17 ATEX 1 129 X**

Revision 0

(15) Description of equipment:

The temperature transmitter type dTRANS T07 T Ex (DIN rail type) and dTRANS T07 B Ex (Head type) 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



**BUREAU
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DIN Rail transmitter:

Power supply

(terminals + and -)

$U_i \leq 30V\ DC$
 $I_i \leq 130\ mA$
 $P_i = 770\ mW$
 $C_i = \text{negligibly small}$
 $L_i = \text{negligibly small}$

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

$L_o = 5\ mH$

$C_o = 0.93\ \mu F$

Ex ia IIB

$L_o = 20\ mH$

$C_o = 3.8\ \mu F$

Ex ia IIA

$L_o = 50\ mH$

$C_o = 4.8\ \mu F$

Ambient temperature

Type (order option)	Temperature class	Ambient temperature	Ambient temperature
		Zone 1/EPL Gb	Zone 0/ EPL Ga
dTRANS T07 B Ex Head transmitter without display	T6	$-50^{\circ}C \leq T_a \leq +58^{\circ}C$	$-50^{\circ}C \leq T_a \leq +46^{\circ}C$
	T5	$-50^{\circ}C \leq T_a \leq +75^{\circ}C$	$-50^{\circ}C \leq T_a \leq +60^{\circ}C$
	T4	$-50^{\circ}C \leq T_a \leq +85^{\circ}C$	$-50^{\circ}C \leq T_a \leq +60^{\circ}C$
dTRANS T07 B Ex Head transmitter with display (dTRANS T07 BD7)	T6	$-40^{\circ}C \leq T_a \leq +55^{\circ}C$	
	T5	$-40^{\circ}C \leq T_a \leq +70^{\circ}C$	
	T4	$-40^{\circ}C \leq T_a \leq +85^{\circ}C$	
type dTRANS T07 T Ex (DIN rail transmitter)	T6	$-40^{\circ}C \leq T_a \leq +46^{\circ}C$	
	T5	$-40^{\circ}C \leq T_a \leq +61^{\circ}C$	
	T4	$-40^{\circ}C \leq T_a \leq +85^{\circ}C$	

(16) Reference number: 17TH0362

(17) Special conditions for safe use:

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

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2017-10-24



H. Schaffer

