

Translation

**4. SUPPLEMENT**

<b>to Certificate No.</b>	<b>TÜV 02 ATEX 1898</b>
Equipment:	Temperature transmitter type IM34- <b>**Ex-<i>i</i></b> and type IM34- <b>**Ex-<i>i</i></b> /24VDC
Manufacturer:	Hans Turck GmbH & Co. KG
Address:	Witzlebenstraße 7 45472 Mülheim an der Ruhr, Germany
Order number:	8000393066
Date of issue:	2011-08-18

In future, the temperature transmitter type IM34-**\*\*Ex-*i*** is manufactured according to the documents listed in the test report.

The changes refer to

- a new version for 24 V d. c. supply, type IM34-**\*\*Ex-*i***/24VDC
- changes of the pcb and components for version with wide range supply
- the electrical data and
- the marking.

This reads as follows:

II (1) G [Ex ia Ga] IIC and II (1) D [Ex ia Da] IIIC

Electrical data

**Type IM34-**\*\*Ex-*i*****

Supply circuit (Terminals 11, 12)	$U_n = 20 \dots 250 \text{ V a. c. resp. } 20 \dots 125 \text{ V d. c.}; P \leq 3 \text{ W}$ $U_m = 250 \text{ V a. c. resp. } 125 \text{ V d. c.}$
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**Type IM34-**\*\*Ex-*i***/24VDC**

Supply circuit (Terminals 11, 12)	$U_n = 20 \dots 30 \text{ V d. c.}, P \leq 2 \text{ W}$ $U_m = 250 \text{ V}$
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**Type IM34-**\*\*Ex-*i*** and IM34-**\*\*Ex-*i***/24VDC**

Measuring circuit (Terminals 1...6)	in type of protection Intrinsic Safety Ex ia IIC/IIB Maximum values: $U_o = 5 \text{ V}$ $I_o = 2.5 \text{ mA}$ $P_o = 3 \text{ mW}$
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Characteristic line: linear  
The effective internal capacitances and inductances are negligibly small.

Ex ia	IIC	IIB
max. permissible external inductance	100 mH	100 mH
max. permissible external capacitance	2 $\mu\text{F}$	9.1 $\mu\text{F}$

The maximum values of the tables are also allowed to be used up to the permissible limits as concentrated capacitances and as concentrated inductances.

The values of the tables for IIB and for IIC are also permissible for explosive dust atmospheres.

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The intrinsically safe measuring circuit is safely galvanically separated from all non intrinsically safe circuits up to a peak value of the voltage of 375 V.

All other data remain unchanged for this supplement.

The equipment according to this supplement meets the requirements of these standards:

EN 60079-0:2009

EN 60079-11:2007

EN 61241-11: 2006

(16) The test documents are listed in the test report No. 11 203 079142.

(17) Special conditions for safe use

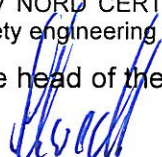
none

(18) Essential Health and Safety Requirements

no additional ones

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The head of the certification body

A handwritten signature in blue ink, appearing to read "Schwedt".

Schwedt

Hanover office, Am TÜV 1, 30519 Hanover, Tel.: +49 (0) 511 986-1455, Fax: +49 (0) 511 986-1590