

Translation

(1) **Statement of Conformity**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**

TÜV NORD



(3) **Statement of Conformity Number: TÜV 06 ATEX 552977 X**

(4) for the equipment: Transmitter supply type IM33-***Ex-°°°/24VDC

(5) of the manufacturer: **Hans Turck GmbH & Co. KG**

(6) Address: Witzlebenstraße 7
D-45472 Mülheim an der Ruhr

Order number: 8000552977

Date of issue: 2006-09-19

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this statement of conformity and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH certifies that this equipment or protective system 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 to the Directive. The examination and test results are recorded in the confidential report No. 06 YEX 552977.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2004 EN 60079-15:2005
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This statement of conformity relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

II 3 G Ex nA [nL] IIC/IIB T4

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the certification body

Schwedt

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This statement of conformity may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

(13) **SCHEDULE**

(14) **Statement of Conformity No. TÜV 06 ATEX 552977 X**

(15) Description of equipment

The transmitter supply type IM33-***Ex-°°°/24VDC is used for the supply of passive two-pole or multipolar apparatus (e. g. two wire transmitters).

The device is executed with 1 or 2 channels.

The permissible ambient temperature range is -25°C ... 70°C.

Electrical data

Supply circuit
(Terminals 11, 12) $U \leq 35 \text{ V d.c.}, P \leq 3.2 \text{ W}$

Output circuits
(Terminals 7, 10 and 8, 9) $U \leq 15 \text{ V d.c.}, I \leq 25 \text{ mA}$

Control circuits
(Terminals 1, 2, 3 resp. 4, 5, 6) energy limited circuits Ex nL IIC/IIB
The maximum values have to be taken from the following table:

Version Ex- Special *** Ex-°°°	IM33-***Ex-°°°/24VDC			
	11Ex,12Ex,22Ex 221Ex 221Ex-K39 221Ex-K40	222Ex 222Ex-K39	223Ex	224Ex
U_o	21.9 V	19.8 V	19.8 V	21.9 V
I_o	95 mA	75 mA	90 mA	104 mA
R_i	331 Ω	419 Ω	316 Ω	302 Ω
Characteristic line	trapezoidal			
C_o for Ex nL IIC	0.12 μF	0.18 μF	0.17 μF	0.10 μF
L_o for Ex nL IIC	3.0 mH	5.0 mH	4.7 mH	2.1 mH
C_o for Ex nL IIB	0.81 μF	0.79 μF	0.73 μF	0.77 μF
L_o for Ex nL IIB	10.0 mH	20.0 mH	20.0 mH	10.0 mH

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

The connection of the control circuits to energy limited circuits with the following maximum values is permissible:

(Terminals 2, 3 resp. 5, 6) $U_i = 40 \text{ V}$ (device with 1 channel) resp.
 $U_i = 30 \text{ V}$ (device with 2 channels)
 $P_i = 650 \text{ mW}$

The rules for the interconnection of energy limited circuits have to be observed.

The energy limited control circuits are safely galvanically separated from all other circuits up to the peak crest value of the voltage of 375 V.

Schedule Statement of Conformity No. TÜV 06 ATEX 552977 X

The energy limited control circuits are safely galvanically separated up to a sum of the voltage of 60 V.

(16) Test documents are listed in the test report No. 06 YEX 552977.

(17) Special conditions for safe use

- The transmitter supply type IM33-***Ex-°°°/24VDC has to be installed in a suitable housing according to EN 60079-15 in such a way, that a degree of protection of at least IP 54 according to EN 60529 is reached.
- The connecting and disconnecting of energised non energy limited circuits is only permitted during installation, for maintenance or for repair purposes.

Note: The temporal coincidence of explosion hazardous atmosphere and installation, maintenance resp. repair purposes is assessed as unlikely in zone 2.

- For the supply circuit arrangements have to be taken externally, that the rated voltage is exceeded not more than 40% by transient disturbances.

(18) Essential Health and Safety Requirements

no additional ones

Translation

1. SUPPLEMENT

to Certificate No.	TÜV 06 ATEX 552977 X
Equipment:	Transmitter supply type IM33-***Ex-***/24VDC
Manufacturer:	Hans Turck GmbH & Co. KG
Address:	Witzlebenstraße 7 45472 Mülheim an der Ruhr Germany
Order number:	8000418422
Date of issue:	2014-03-05

In future, the transmitter supply type IM33-***Ex-***/24VDC is manufactured according to the documents listed in the test report.

The required tests were performed according to the current standards.

The following changes were performed:

- Some new components resp. component changes
- Changes of the pc board
- New routine test for the transformers
- Actualization of the manual
- Changes of the "Special conditions for safe use"
- New marking; this reads:

II 3 G Ex nA [ic Gc] IIC T4 Gc

Alternative marking: II 3 G Ex nAc [ic] IIC T4

The electrical data and all other details remain unchanged.

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

EN 60079-0:2009

EN 60079-11:2012

EN 60079-15:2010

(16) The test documents are listed in the test report No. 13 214 117098.

(17) Special conditions for safe use

1. According to EN 60079-15, section 6.3.1, the following is valid for the transmitter supply type IM33-***Ex-***/24VDC:

a) The apparatus has to be mounted in a housing tested according to EN 60079-0, that meets the requirements of degree of protection IP54.

or

b) The apparatus has to be mounted in a housing tested according to EN 60079-0, that meets the requirements of degree of protection IP4X. Then, the apparatus may exclusively be mounted in locations providing adequate protection against the entry of solid foreign objects or liquids.

The apparatus may be installed in an area of not more than pollution degree 2.

1. Supplement to Certificate No. TÜV 06 ATEX 552977 X

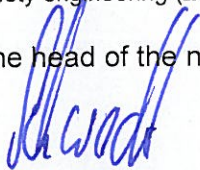
2. The connecting and disconnecting of energised non intrinsically safe circuits is only permitted, if no explosion hazardous atmosphere is available.

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

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

Schwedt

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

Wir/ We HANS TURCK GMBH & CO KG
WITZLEBENSTR. 7, D – 45472 MÜLHEIM A.D. RUHR

erklären in alleiniger Verantwortung, dass die Produkte
declare under our sole responsibility that the products

Transmitter-Speisetrenner Typ IM33-***Ex-***/24VDC

auf die sich die Erklärung bezieht, den Anforderungen der folgenden EU-Richtlinien durch Einhaltung der
folgenden Normen genügen:

to which this declaration relates are in conformity with the requirements of the following EU-directives by compliance with the following standards:

EMV – Richtlinie / EMC Directive 2014 / 30 / EU 26. Feb. 2014
EN 61326-1:2013

Richtlinie / Directive ATEX 2014 / 34 / EU 26. Feb. 2014
EN 60079-0:2012 EN 60079-11:2012 EN 60079-15:2010

Weitere Normen, Bemerkungen
additional standards, remarks

Das Produkt stimmt mit den Anforderungen der Richtlinie 2014 / 34 / EU überein. Eine oder mehrere in der zugehörigen EG-Baumusterprüfbescheinigung genannten Normen wurden bereits durch neue Ausgaben ersetzt. Der Hersteller erklärt für das Produkt auch die Übereinstimmung mit den neuen Normenausgaben, da die veränderten Anforderungen der neuen Normenausgaben für dieses Produkt nicht relevant sind.

The product complies with the directive 2014 / 34 / EU. One or more norms mentioned in the respective EC type examination certificate were already replaced by new ones. The manufacturer declares that the product complies with the new valid norms, as the changed requirements mentioned there are not relevant for the product.

Zusätzliche Informationen:

Supplementary information:

Angewandtes ATEX-Konformitätsbewertungsverfahren / ATEX - conformity assessment procedure applied:
Modul B + Modul D / E / module B + module D / E

EU-Baumusterprüfbescheinigung (Modul B) TÜV 00 ATEX 1595, TÜV 06 ATEX 552977 X /
EC-type examination certificate (module B)

ausgestellt von / issued by: TÜV NORD CERT GmbH, Kenn-Nr. / number 0044
Langemarckstraße 20, 45141 Essen

Zertifizierung des QS-Systems gemäß Modul D durch:
certification of the QS-system in accordance with module D by :

Physikalisch Technische Bundesanstalt, Kenn-Nr. / number 0102,
Bundesallee 100, D-38116 Braunschweig

Mülheim, den 20.04.2016



i.V. Dr. M. Linde, Leiter Zulassungen / Manager Approvals

Ort und Datum der Ausstellung /
Place and date of issue

Name, Funktion und Unterschrift des Befugten /
Name, function and signature of authorized person