



(1) **TYPE EXAMINATION CERTIFICATE**

- (2) Equipment intended for use in potentially explosive atmospheres – Directive 94/9/EC
- (3) Type Examination Certificate Number: **KEMA 05ATEX1031 X**
- (4) Equipment: **Profibus PA/Foundation Fieldbus Transmitter Type KMU-40Ex/3G**
- (5) Manufacturer: **Hans Turck GmbH und Co. KG**
- (6) Address: **Witzleben Straße 7, D-45472 Mülheim a.d. Ruhr, Germany**
- (7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
  
The examination and test results are recorded in confidential report no. 2080524-0.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
  
**EN 50021 : 1999**
- (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 schedule to this certificate.
- (11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of the equipment.
- (12) The marking of the equipment shall include the following:

II 3 G EEx nA[L] IIC T4 ... T6

Arnhem, 29 April 2005  
KEMA Quality B.V.

C.G. van Es  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change

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ACCREDITED BY THE  
DUTCH COUNCIL FOR  
ACCREDITATION



(13)

**SCHEDULE**

(14)

**to Type Examination Certificate KEMA 05ATEX1031 X**

(15)

**Description**

Profibus PA/Foundation Fieldbus Transmitter Type KMU-40Ex/3G, for mounting in an enclosure (e.g. form B according to DIN43729), is used to convert the temperature measurement signal of a temperature sensor into an electrical signal.  
The transmitter is connected to a Profibus PA Fieldbus or to a Foundation Fieldbus.

Ambient temperature range: -40 °C ... +85 °C for temperature class T4  
-40 °C ... +75 °C for temperature class T5  
-40 °C ... +60 °C for temperature class T6

**Electrical data**

Fieldbus input circuit ..... U ≤ 32 Vdc  
(terminals 1 and 2)

Sensor circuit ..... in type of protection energy limitation EEx nL IIC,  
(terminals 3, 4, 5 and 6) with the following maximum values:

U<sub>o</sub> = 5,7 V  
I<sub>o</sub> = 8,4 mA  
P<sub>o</sub> = 12 mW  
C<sub>o</sub> = 40 µF  
L<sub>o</sub> = 200 mH

(16)

**Report**

KEMA No. 2080524-0.

(17)

**Special conditions for safe use**

1. The transmitter shall be mounted in an enclosure providing a degree of ingress protection of at least IP 54 in accordance with EN 60529.
2. Provisions must be made to prevent the rated supply voltage (from the fieldbus input circuit) being exceeded by more than 40%.
3. Refer to the electrical data at (15) for the parameters of the sensor circuit.

(18)

**Essential Health and Safety Requirements**

Covered by the standard listed at (9).

(19)

**Test documentation**

As listed in Test Report no. 2080524-0.

**Konformitätserklärung Nr. 3202 M**  
**Declaration of Conformity**



Diese Konformitätserklärung entspricht der Europäischen Norm EN 45014 "Allgemeine Kriterien für Konformitätserklärungen von Anbietern". Die Grundlage der Kriterien sind internationale Dokumente, insbesondere ISO/IEC Leitfaden 22, 1982: "Information on manufacturer's declaration of conformity with standards or other technical specifications".

This "Declaration of Conformity" complies with the European Standard EN 45014 "General criteria for a supplier's declaration of conformity". These criteria are based on the relevant international documentation, particularly the ISO/IEC Guide 22, 1982: "Information on the manufacturer's declaration of conformity with standards or other technical specifications".

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

**Profibus PA / Foundation Fieldbus Transmitter Typ KMU-40Ex/3G**

auf die sich die Erklärung bezieht, mit den folgenden Normen übereinstimmen  
to which this declaration relates are in conformity with the following standards

**EN 61326 / 1998; A1 / 1999**

und wo anwendbar  
and where applicable

**EN 50021 / 1999**

Gemäß den Bestimmungen der Richtlinie (falls zutreffend)  
Following the provisions of Directive (if applicable)

<b>EMV - Richtlinie</b>	/ EMC Directive	<b>89 / 336 / EWG</b>	<b>3. Mai 1989</b>
<b>Richtlinie ATEX 100a</b>	/ Directive ATEX 100a	<b>94 / 9 / EG</b>	<b>23. März 1994</b>

Weitere Normen  
additional standards

Aussteller der EG-Baumusterbescheinigung:

**KEMA Quality B.V.**  
**Utrechtseweg 310, 6812AR Arnhem, NL**  
**Kenn-Nr. 0344, Registriernummer: KEMA 05 ATEX 1031 X**

Mülheim, den 22.11.05

(i.V. W. Stoll)

Ort und Datum der Ausstellung /  
Place and date of issue

Name und Unterschrift des Befugten /  
Name and signature of authorized person