



Translation

EC-TYPE EXAMINATION CERTIFICATE

- (1) EC-TYPE EXAMINATION CERTIFICATE
- (2) Equipment or Protective System intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) EC-Type Examination Certificate Number



TÜV 99 ATEX 1405

- (4) Equipment or Protective System: Potentiometer amplifier type MK 36-...Ex0...
- (5) Manufacturer: Hans Turck GmbH & CO KG
- (6) Address: Witzlebenstraße 7
D – 45472 Mülheim
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV Certification Body N° 0032 in accordance with Article 9 of the Council Directive 94/9/EC of March 23, 1994, 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 confidential report N° 99/PX06990.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50 014:1997

EN 50 020:1994

- (10) If the sign "X" is placed after the certification 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 EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.
- (12) The marking of the equipment or protective system shall include the following:

II (1) G [EEEx ia] IIC

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 1999-03-30

Head of the
Certification Body



This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV Hannover/Sachsen-Anhalt e.V.

page 1/2



SCHEDULE

(14) EC-TYPE EXAMINATION CERTIFICATE N° TÜV 99 ATEX 1405

(15) Description of equipment or protective system

The potentiometer amplifiers of the series MK 36-...Ex0... are used for the supply of transducers in hazardous explosive areas as well for the transformation of transducer signals into standard analogue signals that are intended for the processing outside of the hazardous explosive area.

The maximum permissible ambient temperature is 60°C.

Electrical Data

Supply circuit U ≤ 30 V d.c.,
(terminals 11, 12) U_m = 250 V a.c.

Output circuit..... U ≤ 30 V d.c., I ≤ 100 mA
(terminals 7, 8) U_m = 250 V a.c.

Control circuitsin type of protection "Intrinsic Safety" EEx ia IIC/IIB
(terminals 1 to 6) resp. EEx ib IIC/IIB

Maximum values:

U_o = 13,8 V
I_o = 35 mA
P_o = 121 mW
Characteristic line: linear

The maximum permissible values of the external capacitance and inductance have to be taken from the following table:

EEx ia/ib	IIC	IIB
L _o	20 mH	100 mH
C _o	760 nF	4,9 µF

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

(16) Test documents consisting of description (10 sheets) inclusive drawings are listed in the test report.

(17) Special condition for safe use

none

(18) Essential Health and Safety Requirements

no additional ones

page 2/2

1st Supplement
to EC-Type Examination Certificate TÜV 99 ATEX 1405

Manufacturer: Hans Turck GmbH & Co. KG
Witzlebenstr. 7
D-4572 Mülheim a.d. Ruhr

The type code of the potentiometer amplifier MK36-...Ex0... has been changed. In future, the type code reads IM 36-...Ex0-...

All other electrical data and specifications remain unchanged for this first supplement.

The test documents are listed in test report no 02 YEX 164085b.

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TÜV-CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover
Tel. 0511-986-1470
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Hannover, 01.07. 2004

Head of the Certification Body

TURCK

Konformitätserklärung Nr. 2104 M
Declaration of Conformity

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

Potentiometerverstärker

MK 36-...Ex0...

IM 36-...Ex...

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

EN 50081 - 2 /1994

EN 50082 - 2 /1996

und wo anwendbar / and where applicable

EN 50014 /1997
EN 50020 /1994

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

EMV - Richtlinie / EMC Directive
89 / 336 / EWG 3. Mai 1989
Richtlinie ATEX 100a / Directive ATEX 100a
94 / 4 / EG 23. März 1994
Niederspannungsrichtlinie / Low Voltage Directive
73 / 23 / EWG 19. Februar 1973

Aussteller der EG-Baumusterbescheinigung:
TÜV Hannover / Sachsen-Anhalt e.V.
TÜV-CERT-Zertifizierungsstelle
Am TÜV 1, 30519 Hannover
Kenn-Nr. 0032

Registriernummer: TÜV 99 ATEX 1405

Mülheim, den 03.06.02

Ort und Datum der Ausstellung /
Place and date of issue

(i.V. W. Stoff)

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