



Translation

EC-TYPE EXAMINATION CERTIFICATE

(1)

(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.

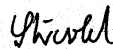
(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

(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



SCHEDULE

(13)

(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 $U \leq 30 \text{ V d.c.}$
(terminals 11, 12) $U_m = 250 \text{ V a.c.}$

Output circuit..... $U \leq 30 \text{ V d.c.}, I \leq 100 \text{ mA}$
(terminals 7, 8) $U_m = 250 \text{ V a.c.}$

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

Maximum values:

$U_o = 13,8 \text{ V}$
 $I_o = 35 \text{ mA}$
 $P_o = 121 \text{ mW}$
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

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.

TÜV NORD CERT GmbH & Co. KG
TÜV-CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover
Tel. 0511-986-1470
Fax. 0511-986-2555

Hannover, 01.07. 2004

Head of the Certification Body

EU-Konformitätserklärung Nr. 5054M
EU Declaration of Conformity No.:

TURCK

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 Typ IM36...Ex...

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	

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 99 ATEX 1405/
EC-type examination certificate (module B)

ausgestellt von / issued by: TÜV NORD CERT GmbH, Kenn-Nr. / number 0044
Langemarkstraße 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