

Translation

(1) **EC-Type Examination Certificate**

**TÜV NORD**

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



(3) **TÜV 99 ATEX 1390**

- (4) Equipment: PC-Connector type PCL45  
(5) Manufacturer: MTL Instruments GmbH  
(6) Address: Bessemer Str. 80  
D – 44793 Bochum

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

- (8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), 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 N° 98/PX02390.

- (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 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 EC-type examination certificate relates only to the design and construction of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and placing on the market of this equipment or protective system.

- (12) The marking of the equipment or protective system must include the following:

II (1) G EEx ia

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

Head of the  
Certification Body

Hanover, 2006-01-18

TÜV NORD CERT GmbH & Co. KG legal  
successor of the notified body of  
TÜV Hannover/Sachsen-Anhalt e.V.  
German original certificate  
issued on 1999-02-15

(13) **SCHEDULE**

(14) **EC-Type Examination Certificate N° TÜV 99 ATEX 1390**

(15) Description of equipment

As an associated apparatus, the PC-Connector type PCL45 is used for connecting electronic measuring transmitters with a computer. It serves for a galvanic separation and for the operational necessary adaptation of the signals between the transmitters and the computer.

The maximum permissible ambient temperature is 60°C.

Electrical data

PC-interface circuit ..... nominal values 0 - 15 V  
( X1/3 [TxD]  $U_m = 250$  V  
X1/5 [GND]  
X1/7 [RTS]  
X1/2 [RxD]  
X1/4 [DTR] )

Programming circuit ..... only for connection to transmitters according to  
( X2/tip [TxD] the test documents resp. manual of the manufacturer  
X2/middle [RxD]  
X2/housing [GND] )

The programming circuits are safely galvanically separated from PC-interface circuits up to a peak crest value of the voltage of 375 V.

Hint for the erection: The hints in the manual have to be observed.

(16) The test documents consisting of description (5 pages) as well as drawings (20 pages) are listed in the test report.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones

**Translation**  
**1. SUPPLEMENT to**

**EC-TYPE EXAMINATION CERTIFICATE No. TÜV 99 ATEX 1390**

Equipment: PC-Connector type PCL 45 USB  
 Manufacturer: MTL Instruments GmbH  
 Address: Bessemer Str. 80  
 D-44793 Bochum

In the future, the PC-Connector type PCL 45 may also be manufactured according to the test documents mentioned in the test report.  
 The changes refer to the electrical data, the marking of the PC-Connector as well as the type designation.

In the future, the type designation for the changed version of the PC-Connector reads „PCL 45 USB“.

In the future, the marking for the changed version of the PC-Connector reads II (1) G [EEx ia] IIC.

Electrical data

PC-interface circuit .....  $U_n = 5 \text{ V}$   
 (Bushing for USB connection;  $U_m = 250 \text{ V}$   
 X1/1 ... X1/4 )

Programming circuit ..... in type of protection Intrinsic Safety EEx ia IIC  
 (Jack plug;

( X2/tip [TxD]  
 X2/middle [RxD]  
 X2/housing [GND] )

maximum values:

$U_o = 6,5 \text{ V}$

$I_o = 15 \text{ mA}$

$P_o = 25 \text{ mW}$

characteristic line: linear

The effective internal inductance and capacitance are negligibly small.

The connection to measuring transmitters according to the manual of the manufacturer is permissible.

The programming circuit is safely galvanically separated from PC-interface circuits up to a peak crest value of the voltage of 375 V.

All other details remain unchanged.

## 1. Supplement to EC-Type Examination Certificate No. TÜV 99 ATEX 1390

The equipment incl. of these changes meets the requirements of the following standards

EN 50 014:1997 + A1 + A2

EN 50 020:2002

(16) The test documents are listed in the test report N° 05 YEX 552381.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones

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Hannover, 2006-01-18

German original supplement to the certificate  
issued on 2005-11-25



Head of the  
Certification Body