

Translation



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

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

(3) **Certificate Number** TÜV 03 ATEX 2324 X **Issue:** 03

(4) for the product: Smart Tachograph DTCO 1381.x

(5) of the manufacturer: Continental Automotive Technologies GmbH

(6) Address: Heinrich Hertz Str. 45  
78052 Villingen-Schwenningen  
Germany

Order number: 8003045829

Date of issue: See date of signature

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential ATEX Assessment Report No. 22 203 323211.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


EN IEC 60079-0:2018                      EN IEC 60079-7:2015/A1                      EN 60 079-11:2012

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. 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 product shall include the following:

 II 3 (2) G Ex ec [ib Gb] IIC T6 Gc

TÜV NORD CERT GmbH, Am TÜV 1, 45307 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 deputy head of the notified body

(13) **SCHEDULE**

(14) **EU-Type Examination Certificate TÜV 03 ATEX 2324 X Issue 03**

(15) Description of product

Together with the motion type KITAS 21XX.xx the Smart Tachograph DTCO 1381.x is used for the supervision of vehicles transporting combustible liquids or gases.

The Smart Tachograph DTCO 1381.x is installed according to the intended use in the driving cab of a motor vehicle. The Smart Tachograph DTCO 1381.x is also an associated electrical apparatus with intrinsically safe circuits.

Type key:

- DTCO 1381.2xxxxxx
- DTCO 1381.3xxxxxx
- DTCO 1381.4xxxxxx
- DTCO 1381.7xxxxxx

Permissible ambient temperature range: -20 °C ... +65 °C

Technical data

Supply circuit ..... (Connections A1[30] and A5[31a] at the plug connector)	permanent supply from the vehicle battery $U_n = 24 \text{ V}$ resp. $12 \text{ V}$
Ignition system ..... (Connections A2[58d], A3[15], and A6[31] at the plug connector)	supply via the battery master switch and ignition switch from the vehicle battery $U_n = 24 \text{ V}$ resp. $12 \text{ V}$
Remainders data and signal circuits .....	electrical data according to the manufacturers specifications
Supply and signal circuits ..... (Connections B1, B2, B3 and B4 at the plug connector)	in type of protection Intrinsic Safety Ex ib IIC maximum values: $U_o = 9.7 \text{ V}$ $I_o = 36 \text{ mA}$ $P_o = 320 \text{ mW}$ characteristic line: trapezoidal only for connection to the motion sensor type KITAS 2171.xx according to EC-Type Examination Certificate TÜV 02 ATEX 1842 X or type KITAS 2185.xx according to EC-Type Examination Certificate TÜV 02 ATEX 1842 X or

For the interconnection a cable length of 20 m is permissible. The intrinsically safe circuits are galvanically connected with the non intrinsically safe circuits.

## **Schedule to EU-Type Examination Certificate TÜV 03 ATEX 2324 X Issue 03**

(16) Drawings and documents are listed in the ATEX Assessment Report No. 22 203 323211.

(17) Specific Conditions for Use

1. The Smart Tachograph DTCO 1381.x is only allowed to be installed into the designated radio compartment at any place in the driving cab of a vehicle.
2. The connecting and disconnecting of non-intrinsic safety circuits as well as the activating of switching elements and the issuance or inserting of chip cards is only permitted if no explosion hazardous atmosphere exists.
3. The operation of the Smart Tachograph DTCO 1381.x with closed battery master switch is not allowed if explosion hazardous atmosphere exists.
4. Accessible non-metallic surfaces shall be protected against to impermissible electrostatic charges.
5. The installation of the Smart Tachograph DTCO 1381.x must be made in a way that a equivalent degree of protection of IP 54 is given after test of thermal endurance to heat acc. EN IEC 60079-0.
6. After opening the battery master switch (resp. after ignition "off") a waiting time at least 10 minutes have passed before start of the loading- or unloading process.

(18) Essential Health and Safety Requirements

no additional ones

- End of EU-Type Examination Certificate -