

Translation

EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 20 ATEX E 035 X**

Product: **Read-write-head type TN-R42TC-Ex/ TN-R42TC-Ex/C53**

Manufacturer: **Hans Turck GmbH & Co. KG**

Address: **Witzlebenstr. 7, 45472 Mülheim/Ruhr, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 Report No. BVS PP 20.2045 EU.


The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	General requirements
EN IEC 60079-7:2015 + A1:2018	Increased Safety "e"
EN 60079-18:2015/A1:2017	Encapsulation "m"
EN 60079-31:2014	Protection by Enclosure "t"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

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 product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex eb mb IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH
Bochum, 2020-05-18

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**
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15 **Product description**

15.1 **Subject and type**

Read-write head	
type TN-R42TC-Ex	non-bus compatible version
type TN-R42TC-Ex/C53	bus compatible version

15.2 **Description**

The read-write-head consists of a stainless steel tube, which is divided into two parts inside. Via a separately certified cable entry, the power supply is routed to separately certified terminals in the terminal compartment in type of protection Increased Safety. The second compartment contains the actual read-write head and is designed in type of protection Encapsulation.

15.3 **Parameters**

Supply	DC	24	V ±10 %
Current max.		70	mA
Transmitting frequency		13.56	MHz
Permitted ambient temperature range		-20 °C up to +40 °C	

16 **Report Number**

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17 **Special Conditions for Use**

- 17.1 The read-write-head has to be installed in a way that it is protected against high mechanical danger (> 4 J).
- 17.2 The enclosure of the read-write-head has to be installed in a way that it is included in the external bonding. Details are given in the instruction manual.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2020-05-18
BVS-Hk/Mu A 20200386



Managing Director

