

Translation

# EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 24 ATEX E 003 X** Issue: **00**

Equipment: **Tubular load cell type 0205**

Manufacturer: **BROSA GmbH**

Address: **Dr.-Klein-Straße 1, 88069 Tettngang, 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 24.2006 EU.

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

<b>EN IEC 60079-0:2018</b>	<b>General requirements</b>
<b>EN 60079-1:2014</b>	<b>Flameproof enclosure "d"</b>
<b>EN 60079-31:2014</b>	<b>Protection by Enclosure "t"</b>

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. 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:

	<b>II 2G Ex db IIC T3 Gb</b>
	<b>II 2D Ex tb IIIC T200°C Db</b>
	or
	<b>II 2G Ex db IIC T4 Gb</b>
	<b>II 2D Ex tb IIIC T130°C Db</b>

DEKRA Testing and Certification GmbH  
Bochum, 2024-01-18

Signed: Oliver Brumm

Managing Director



13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 24 ATEX E 003 X issue 00**

15 **Product description**

15.1 **Subject and type**

Tubular load cell type 0205

15.2 **Description**

The tubular load cell type 0205 is a measuring device for recording loads and forces in industrial applications. The force is determined by means of a strain gauge bridge. In passive mode, the measured signal is output directly, in active mode the bridge signal is amplified by an integrated, non-intrinsically safe powered operating device and converted into an output signal.

The tubular load cell consists of a cylindrical steel housing with a recessed inner diameter. Inside the housing are the electronic components that convert and process occurring forces into an electrical signal.

15.3 **Parameters**

Active mode (with integrated amplifiers):

Input voltage	DC	9	up to	36	V
Input current		0	up to	300	mA
Output voltage	DC	0	up to	10	V
Output current		0	up to	30	mA

Passive mode (without amplifier):

Input voltage	DC	1	up to	10	V
Input current		0	up to	30	mA

*Thermal parameters:*

*Ambient temperature range*  $-40\text{ °C} \leq T_{\text{amb}} \leq 80\text{ °C}$  (T4) or  $-40\text{ °C} \leq T_{\text{amb}} \leq 150\text{ °C}$  (T3)

16 **Report Number**

BVS PP 24.2006 EU, as of 2024-01-18

17 **Specific Conditions of Use**

17.1 In applications in zone 21: The tubular load cell must be used only in areas where strong or repeated charging processes are not expected to occur.

17.2 Some of the dimensions of the flameproof joints of this machine exceed the permissible minimum values or go below the permissible maximum values which are given by EN 60079-1:2014. For information concerning these dimensions contact the manufacturer.

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.



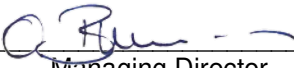
19 **Remarks and additional information**

Drawings and documents are listed in the confidential report.

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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, 2024-01-18  
BVS-KSC/Kir/Mu A 20230291 / 343083200

  
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Managing Director