

CERTIFICATE

(1) EU-Type Examination

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

(3) EU-Type Examination Certificate Number: **DEKRA 13ATEX0175 X** Issue Number: **2**

(4) Product: **Guided Radar Level Transmitter DR2000 Type DR2000Aa...t**

Radar Level Transmitter DR5200 Type DR5200Aa...t

(5) Manufacturer: **AMETEK DREXELBROOK**

(6) Address: **205 Keith Valley Road, Horsham, PA 19044, USA**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 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 confidential test report number NL/DEK/ExTR13.0083/01.

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

EN 60079-0 : 2012 + A11 : 2013
EN 60079-26 : 2015

EN 60079-1 : 2014
EN 60079-31 : 2014

EN 60079-11 : 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 of 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 product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



For marking see section 15.

Date of certification: 3 September 2019

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 13ATEX0175 X**

Issue No. 2

(15) **Description**

The Guided Wave Radar Level Transmitter DR2000 type DR2000Aa...t, and Radar Level Transmitter DR5200 type DR5200Aa...t are used for continuous level measurement of flammable or non-flammable liquids or solid particles, granulates or powders within storage or process tanks or in a stilling well.

The distance between transmitter DR2000 and the surface of the process medium is measured using a probe system (e.g. cable or rod) that guides electromagnetic pulses that are reflected by the surface of the process medium.

The distance between the antenna of transmitter DR5200 and the surface of the process medium is measured using frequency modulated continuous wave radar.

The 2-wire transmitter is loop powered. The output is either a 4 - 20 mA current signal with an overlaid digital communication protocol (HART) or a fixed current with a carrier signal for the fieldbus protocol (PROFIBUS PA or FOUNDATION fieldbus FF).

Either the 4 - 20 mA HART transmitter is completely in type of protection intrinsic safety "i" or the transmitter is provided with the power supply compartment in type of protection flameproof enclosures "d". In the latter version a zener barrier circuit board is located in the terminal compartment.

Optionally, the transmitter may be provided with display and adjustment capabilities (HMI option).

Transmitters DR2000 and DR5200 are also available as remote versions. The length of the cable between transmitter housing and sensor is maximum 100 m.

Optionally, the DR2000 may be equipped with an adaptor for connection to an existing certified DR7100 probe system.

The enclosure provides a degree of protection of at least IP66/IP67 as per EN 60529.

For type designation, marking and technical data refer to Annex 1 to this certificate.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR13.0083/01

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 13ATEX0175 X**

Issue No. 2

(17) **Specific conditions of use**

- When used in an explosive atmosphere requiring the use of a probe of equipment category 1G the probe must be installed so that, even in the event of rare incidents, an ignition source due to electrostatic discharging of the plastic parts of the apparatus is excluded.

- When used in an explosive dust atmosphere the apparatus must be installed so that electrostatic discharging is excluded.

- The flame path at the bushing has a width of min. 13,9 mm and a gap of max. 0,118 mm.

- For ambient temperature range see (15).

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR13.0083/01

(20) **Certificate history**

Issue 1 - 216587900	initial certificate
Issue 2 - 223841200	minor constructional changes assessed per newer editions of the standards