



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 07 ATEX 2019

(4) Equipment: Actuating magnets for solenoid valves, types 205*

(5) Manufacturer: Norgren GmbH

(6) Address: Stuttgarter Str. 120, 70736 Fellbach, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 PTB Ex 07-25256 .

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

EN 60079-0:2004

EN 50020:2002

prEN 61241-0:2004

EN 61241-11:2006

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. 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 equipment shall include the following:

II 2 G Ex ia IIC T6/T4 and II 2 D Ex iaD 21 T80/100 °C

Zertifizierungsstelle Explosionsschutz

Braunschweig, May 8, 2007

By order:

Dr.-Ing. U. Johannsmeyer
Direktor und Professor



(13)

SCHEDULE




(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 07 ATEX 2019



(15) Description of equipment

The actuating magnets for solenoid valves of types 205* are used to actuate solenoid valves in the hazardous area.

For relationship between the marking and the permissible ambient temperature range, reference is made to the following table.

Marking	Ambient temperature range
 II 2 G Ex ia IIC T6	-40 ... 60 °C
 II 2 G Ex ia IIC T4	-40 ... 80 °C
 II 2 D Ex iaD 21 T100 °C T 80 °C	-40 ... 80 °C -40 ... 60 °C

Electrical data

 II 2 G Ex ia IIC T6/T4 and  II 2 D Ex iaD 21 T80/100 °C

Supply circuit

type of protection Ex ia IIC / Ex iaD

Only for connection to a certified intrinsically safe circuit.

Maximum values: $U_i = 45 \text{ V}$
 $I_i = 500 \text{ mA}$
 $P_i = 2 \text{ W}$
 L_i negligibly low
 C_i negligibly low

(16) Test report PTB Ex 07-25256

(17) Special conditions for safe use

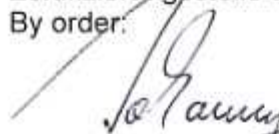
none

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

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