

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

(2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 04ATEX2307**

(4) Equipment or protective system: **Digital field display Type RIA 141**

(5) Manufacturer: **Endress + Hauser Wetzler GmbH + Co. KG**

(6) Address: **Obere Wank 1, 87484 Nesselwang, Germany**

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

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential report no. 2077559.


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

EN 50014 : 1997 + A1, A2 EN 50018 : 2000 + A1 EN 50281-1-1 : 1998 + A1

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 **II 2 G EEx d IIC T4 ... T6**
II 2 D T110 °C

Arnhem, 18 February 2005
KEMA Quality B.V.



T. Pijpker
Certification Manager

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SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 04ATEX2307

(15) **Description**

The Digital Field display Type RIA 141 consists of an enclosure including electronics circuits with HART communication protocol, terminal boards and display. It converts a measurement input signal of external temperature sensors into a 4 - 20 mA and digital output signal.

Ambient temperature range: -40 °C ... +55 °C for T6
-40 °C ... +70 °C for T5
-40 °C ... +80 °C for T4

The maximum surface temperature of the enclosure T 110 °C is based on a maximum ambient temperature of 80 °C.

Electrical data

Supply voltage 35 Vdc max.
Rated power 3 W max.

Installation instructions

Cable entry

The cable entry devices and blanking elements shall be of a certified flameproof type, suitable for the conditions of use and correctly installed. For combustible dust applications, the cable entry device and blanking elements shall be of a certified type and shall have an IP 6X rating according to EN 60529.

Conduit entry

For applications in the presence of flammable gas, a certified sealing device such as a stopping box with setting compound shall be provided, either in the conduit entry of the housing or immediately at the entrance thereto.

Routine tests

Routine tests according to Clause 16 of EN 50018 are not required since the type test has been made at a static pressure of four times the reference pressure.

(16) **Report**

KEMA No. 2077559.

(17) **Special conditions for safe use**

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2077559.