

(1) EC-TYPE EXAMINATION CERTIFICATE

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

(3) EC-Type Examination Certificate Number: **KEMA 08ATEX0023** Issue Number: 2

(4) Equipment: **Digital field display Type RIA14 and Type RIA16**

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

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

(7) This equipment 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 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 test report number 212401500/2.

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

EN 60079-0 : 2006

EN 60079-11 : 2007

EN 60079-26 : 2007

(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 according 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(1) G Ex ib [ia] IIC T6 ... T4

This certificate is issued on September 29, 2009 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

C.G. van Es
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 08ATEX0023**

Issue No. 2

(15) **Description**

The Digital Field display Type RIA14 and Type RIA16 consist of an enclosure including electronic circuits, a terminal board and a display.

The equipment displays the value that is derived from the supply/input signal, and it also provides an open collector output signal.

Ambient temperature range: -40 °C to +50 °C for T6,
-40 °C to +60 °C for T5,
-40 °C to +85 °C for T4.

Electrical data

Supply/input circuit (terminals +, - and 1):

In type of protection intrinsic safety Ex ib IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 750 \text{ mW}$; $C_i = 15,2 \text{ nF}$; $L_i = 0 \text{ mH}$.

Open Collector output circuit (terminals 2 and 3)

In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 375 \text{ mW}$; $C_i = 0 \text{ nF}$; $L_i = 0 \text{ mH}$.

The intrinsically safe Supply/input circuit and the Open Collector output circuit are infallibly galvanically isolated from each other.

Installation instructions

The instructions, provided by the manufacturer, shall be followed in detail to assure safe operation of the equipment.

(16) **Test Report**

KEMA No. 212401500/2.

(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. 212401500/2.