防 爆 合 格 证

证　号：GYJ25.1094X

制　造　商　Endress+Hauser Wetzer GmbH+Co. KG

（地址：Obere Wank 1, 87484 Nesselwang, Germany）

产 品 名 称　现场指示仪

型 号 规 格　RIA14, RIA16

防 爆 标 志　Ex ib ⅡC T4...T6 Gb，Ex db ⅡC T4...T6 Gb

产 品 标 准　/

图 样 编 号　RIA141_0215，RIA16_AL_1205

经图样及技术文件的审查和样品检验，确认上述产品符合下列标准：
GB/T 3836.1-2021,GB/T 3836.2-2021,GB/T 3836.4-2021

特颁发此证。

本证书有效期：2025 年 08 月 19 日 至 2030 年 08 月 18 日

备注
1. 安全使用注意事项见本证书附件。
2. 证书编号后缀“X”表明产品具有安全使用特殊条件，内容见本证书附件。
3. 电气安全参数见本证书附件。
4. 本证书同时适用于恩德斯豪斯温度仪表（苏州）有限公司（地址：苏州工业园区江田里路 31 号）生产的同型号产品。

批　准

上海仪器仪表自控系统检验测试所有限公司
国家级仪器仪表防爆安全监督检验站

颁 发 日 期 二〇二五 年 八 月 十 九 日

本证书仅对与认可文件和样品一致的产品有效。

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EXPLOSION PROTECTION
CERTIFICATE OF CONFORMITY

Cert No. GYJ25.1094X

Manufacturer	**Endress+Hauser Wetzer GmbH+Co.KG** **(Address:Obere Wank 1, 87484 Nesselwang, Germany)**
Product	**Field display**
Model	**RIA14, RIA16**
Ex marking	**Ex ib IIC T4…T6 Gb, Ex db IIC T4…T6 Gb**
Product standard	**/**
Drawing number	**RIA141_0215, RIA16_AL_1205**

The product was found to comply with the following standard(s):

GB/T 3836.1-2021,GB/T 3836.2-2021,GB/T 3836.4-2021

Valid until: **2030.08.18**

Remarks

1.Conditions for safe use are specified in the attachment(s) to this certificate.
2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
3.Safe parameters specified in the attachment(s) to this certificate.
4.This certificate is also applicable for the product with same type manufactured by Endress+Hauser Wetzer (Suzhou) Co., Ltd. (address: No.31 JiangTianLiLu,Suzhou Industrial Park)

Approval

Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.
National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation
Date of issue 2025.08.19

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

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GYJ25.1094X 防爆合格证附件Ⅰ

由恩德斯+豪斯公司生产的RIA14，RIA16型现场指示仪，经检验符合下列标准：

GB/T 3836.1-2021 爆炸性环境 第1部分：设备 通用要求

GB/T 3836.2-2021 爆炸性环境 第2部分：由隔爆外壳“d”保护的设备

GB/T 3836.4-2021 爆炸性环境 第4部分：由本质安全型“i”保护的设备

产品防爆标志为 Ex ib IIC T4...T6 Gb，Ex db IIC T4...T6 Gb, 防爆合格证号为GYJ25.1094X。

本证书认可的产品型号规格如下：

RIA14-***a b c d e f g h i j***

a 代表防爆认证代码，可为：NA=Ex ib IIC T4...T6 Gb，

ND=Ex db IIC T4...T6 Gb；

b 代表接线盒型号/材质，可为：3=现场型，铸铝，

4=现场型，不锈钢 316L，

9= 3 或 4 与不导电涂层的组合；

c 代表格兰接头，可为：B=NPT1/2 螺纹，

C=M20 螺纹，

D=G1/2 螺纹（ND 不适用）；

其余代表安装附件、校准、服务、附加认证、附件、测试/证书和标识，与防爆性能不相关。

RIA16-***a b c d e f g h i j***

a 代表防爆认证代码，可为：NA= Ex ib IIC T4...T6 Gb；

b 代表接线盒型号/材质，可为：2=铝，

9=2 与绝缘清漆的组合；

其余代表格兰接头、安装附件、校准、服务、附加认证、附件、测试/证书和标识，与防爆性能不相关。

一、产品安全使用特殊条件

产品防爆合格证号后缀“X”表示产品有安全使用特殊要求，具体内容如下：

1、涉及隔爆接合面的维修须联系产品制造商。

2、产品使用环境温度与防爆标志、温度组别的关系如下：

防爆标志	环境温度	温度组别
Ex ib IIC T4…T6 Gb	-40℃～+50℃	T6
	-40℃～+60℃	T5
	-40℃～+85℃	T4
Ex db IIC T4…T6 Gb	-40℃～+55℃	T6
	-40℃～+70℃	T5
	-40℃～+80℃	T4

3、外壳有不导电涂层的时候，应避免设备外壳的静电积聚。用户须采取有效措施防止产品外壳由于冲击或摩擦引起的点燃危险。

二、产品使用注意事项

1、电气参数:

防爆标志为 Ex db IIC T4…T6 Gb 时，最大电压=35VDC，最大功率=3W。

防爆标志为 Ex ib IIC T4…T6 Gb 时：

	最高输入电压 Ui（V）	最大输入电流 Ii（mA）	最大输入功率 Pi（mW）	最大内部等效参数	
				Ci (nF)	Li (mH)
电源/输入电路（端子+，-，1）	30	100	750	15.2	0

	最高输入电压 Ui（V）	最大输入电流 Ii（mA）	最大输入功率 Pi（mW）	最大内部等效参数	
				Ci (nF)	Li (mH)
集电极开路输出电路（端子 2，3）	30	100	375	0	0

2、用户不得自行随意更换该产品的电气零部件，应会同产品制造商共同解决运行中出现的故障，以免影响防爆性能和损坏现象的发生。

3、产品的安装、使用和维护应同时遵守产品使用说明书、GB/T 3836.13-2021 “爆

炸性环境 第13部分：设备的修理、检修、修复和改造”、GB/T 3836.15-2017“爆炸性环境 第15部分：电气装置的设计、选型和安装”、GB/T 3836.16-2022“爆炸性环境 第16部分：电气装置的检查与维护”、GB/T 3836.18-2024“爆炸性环境 第18部分：本质安全电气系统” 及GB 50257-2014“电气设备安装工程爆炸和火灾危险环境电气装置施工及验收规范”的有关规定。

三、制造厂责任

1、产品制造厂必须将上述产品安全使用特殊条件和使用注意事项纳入该产品使用说明书。

2、制造厂必须严格按照 NEPSI 认可的文件资料生产。

上海仪器仪表自控系统检验测试所有限公司

国家级仪器仪表防爆安全监督检验站

二〇二五年八月十九日

Attachment Ⅰ to GYJ25.1094X

1. Description

Field display typed RIA14, RIA16 manufactured by Endress + Hauser Wetzer GmbH + Co. KG, has been certified accords with following standards:

GB/T 3836.1-2021 Explosive atmospheres-Part 1: Equipment-General requirements

GB/T3836.2-2021 Explosive atmospheres-Part 2: Equipment protection by flameproof enclosure ”d”

GB/T 3836.4-2021 Explosive atmospheres-Part 4: Equipment protection by intrinsic safety ”i”

The Ex marking is shown in the type code designation, its certificate number is GYJ25.1094X.

Type approved in this certificate is shown as below:

RIA14-***a b c d e f g h i j***

a indicates approval code, including

NA = Ex ib IIC T4...T6 Gb,

ND = Ex db IIC T4...T6 Gb ;

b indicates Junction box model/material, including

3=Field, Alu die cast,

4= Field, 316L,

9=Combination of 3 or 4+ Non-conductive varnish ;

c indicates Cable Entry, including

B = NPT1/2 female thread,

C = M20 female thread,

D = G1/2 female thread (Excluded for option ND);

Others represent installation accessories, calibration, services, additional certifications, accessories, tests/certificates and markings, which are not related to explosion-proof performance.

RIA16-***a b c d e f g h i j***

a indicates approval code, including

NA = Ex ib IIC T4...T6 Gb;

b indicates Junction box model/material, including

2= Alu,

9= Combination of 2+ Non-conductive varnish;

Others represent cable gland, installation accessories, calibration, services, additional certifications, accessories, tests/certificates and markings, which are not related to explosion-proof performance.

2. Special Conditions for Safe Use

The suffix “X” placed after the certificate number indicates that this product is subject to special conditions for

safe use, which is:

2.1 For information on the dimensions of the flameproof joints contact the manufacturer.

2.2 The relationship between ambient temperature and Ex marking/temperature class is shown as follows:

Ex marking	Ambient temperature range	T class
Ex ib ⅡC T4…T6 Gb	-40℃～+50℃	T6
	-40℃～+60℃	T5
	-40℃～+85℃	T4
Ex db ⅡC T4…T6 Gb	-40℃～+55℃	T6
	-40℃～+70℃	T5
	-40℃～+80℃	T4

2.3 When the enclosure is provided with a non-conductive coating, electrostatic charges on the equipment enclosure shall be avoided. Users must take effective measures to prevent the risk of ignition of the product casing caused by impact or friction.

3. Conditions for Safe Use

3.1 Safety electrical data:

When Ex marking is Ex db ⅡC T4…T6 Gb: Umax=35VDC, Pmax=3W.

When Ex ib ⅡC T4…T6 Gb:

	Ui(V)	Ii(mA)	Pi(mW)	Ci(nF)	Li(mH)
Supply/input circuit (terminals +, - and 1)	30	100	750	15.2	0

	Ui(V)	Ii(mA)	Pi(mW)	Ci(nF)	Li(mH)
Open Collector output circuit (terminals 2 and 3)	30	100	375	0	0

3.2 The user shall not change the configuration in order to maintain/ensure the explosion protection performance of the equipment. Any change may impair safety.

3.3 For installation, use and maintenance of this product, the end user shall observe the instruction manual and the following standards:

GB/T 3836.13-2021 “Explosive atmospheres- Part 13:Equipment repair, overhaul, reclamation and modification”.

GB/T 3836.15-2017 “Explosive atmospheres- Part 15:Electrical installations design, selection and erection”.

GB/T 3836.16-2022 “Explosive atmospheres- Part 16:Electrical installations inspection and maintenance”.

GB/T 3836.18-2024 “Explosive atmospheres- Part 18:Intrinsically safe electrical systems”.

GB50257-2014 “Code for construction and acceptance of electric equipment on fire and device for explosion hazard electrical installation engineering”.

4. Manufacturer's Responsibility

4.1 Conditions for safe use and special conditions for safe use, as specified above, should be included in the documentation the user is provided with.

4.2 Manufacturing should be done according to the documentation approved by NEPSI.

Shanghai Inspection and Testing
Institute of Instruments and Automation Systems Co. Ltd.
National Supervision and Inspection Center
for Explosion Protection and Safety of Instrumentation
2025.08.19