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防爆合格证

证 号：GYJ24.1119X

制 造 商 恩德斯+豪斯公司

(地址：Dieselstraße 24, 70839 Gerlingen, Germany)

产 品 名 称 二线制测量变送器

型 号 规 格 CM72, CM82 系列

防 爆 标 志 Ex ia II C T4/T6 Ga, Ex ia III C T85°C/T135°C Db

产 品 标 准 /

图 样 编 号 407753_B

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 3836.4-2021

特颁发此证。

本证书有效期：2024年05月03日至2029年05月02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. 型号规格说明见本证书附件。
4. 本安电气参数见本证书附件。

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 四 年 五 月 三 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. GYJ24.1119X

Manufacturer	Endress+Hauser Conducta GmbH+Co. KG (Address: Dieselstraße 24, 70839 Gerlingen, Germany)
Product	Two-wire Measurement Transmitter
Model	CM72, CM82 Series
Ex marking	Ex ia IIC T4/T6 Ga, Ex ia IIIC T85°C/T135°C Db
Product standard	/
Drawing number	407753_B

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

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

Valid until: 2029.05.02

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. Model designation is specified in the attachment(s) to this certificate.
4. Intrinsic safety parameters specified in the attachment(s) to this certificate.

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 2024.05.03

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



(GYJ24.1119X)

(Attachment I)

GYJ24.1119X 防爆合格证附件 I

由恩德斯+豪斯公司生产的CM72、CM82系列二线制测量变送器，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 3836.4-2021 爆炸性环境 第4部分：由本质安全型“i”保护的设

产品防爆标志Ex ia II C T4/T6 Ga,Ex ia III C T85 °C /T135 °C Db，防爆合格证号 GYJ24.1119X。

本证书认可产品型号规格如下：

CM72-****B1**a**1**b**1**

CM82-**XAB2**a**1**b**1**

其中：**a**表示电缆长度，代码可为C=3m、F=7m、K=15m或Y=客户定制（最大15m）；

b表示电缆连接，代码可为A=压铸管件或Y=客户定制；

**表示认证、传感器类型/测量范围、设备版本，与防爆性能无关。

详见产品使用说明书。

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、当产品安装于要求EPL Ga级的场所时，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。

2、产品使用环境温度、温度组别和最高表面温度的关系如下：

使用环境温度	温度组别	最高表面温度
-20°C ~ +55°C	T6	T85
-20°C ~ +80°C	T4	T135

二、产品使用注意事项

1、产品必须与已通过防爆认证的关联装置配套共同组成本安防爆系统方可使用于爆炸性气体环境/可燃性粉尘环境。其系统接线必须同时遵守本产品 and 所配关联装置的使用说明书要求，接线端子不得接错。

产品本安电气参数：

$U_i=30V$ $I_i=100mA$ $P_i=750mW$ $C_i=7nF$ (含15米电缆) $L_i=20\mu H$ (含15米电缆)

$P_o=105mW$

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 3836.18-2017“爆炸性环境 第18部分：本质安全电气系统”、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”及GB 15577-2018 粉尘防爆安全规程的有关规定。

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

二〇二四年五月三日



Attachment I to GYJ24.1119X

1. Description

CM72 and CM82 series Two-wire Measurement Transmitter, manufactured by Endress+Hauser Conducta GmbH+Co. KG, has been certified accords with following standards:

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

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

The Ex marking is Ex ia II C T4/T6 Ga,Ex ia III C T85°C/T135°C Db, its certificate number is GYJ24.1119X.

Type approved in this certificate is:

CM72-****B1**a**1**b**1**

CM82-**XAB2**a**1**b**1**

Note: **a** indicates cable length, the code is C=3m, F=7m, K=15m or Y=Customer specific (max. 15m);

b indicates cable connection, the code is A=Crimp sleeves or Y=Customer specific;

** indicates approval, sensor type/ measuring range, device version (not Ex-relevant).

Refer to the instruction manual for the details.

2. Special Conditions for Safe Use

The suffix “X” placed after the certificate indicates that the product is subject to special conditions for safe use specified as follows:

2.1 The connection cable have to be protected from electrostatic charging, if installed through areas requiring EPL Ga equipment.

2.2 The relationship between ambient temperature, temperature class and max. surface temperature is shown as following:

Ambient temperature	Temperature class	Max. surface temperature
-20°C ~ +55°C	T6	T85
-20°C ~ +80°C	T4	T135

3. Conditions for Safe Use

3.1 This product should be used in explosive gas atmospheres/ combustible dust atmospheres together with associated apparatus, follow the instruction manual of this product and the associated apparatus when connecting the wiring. Connect the wiring terminals correctly. Intrinsically safe parameters:

Ui=30V li=100mA Pi=750mW Ci=7nF (including 15m cable) Li=20μH (including 15m cable)

Po=105mW

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 the product, the end user shall observe the instruction manual and the following standards:

GB 50257-2014 "Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering".

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 3836.18-2017 "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".

GB15577-2018 "Safety regulations for dust explosion prevention and protection".

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
2024.05.03