



EXPLOSION PROTECTION

CERTIFICATE OF CONFORMITY

Cert NO.GYJ19.1378X

This is to certify that the product

Temperature sensor

manufactured by **Endress + Hauser Wetzer GmbH + Co. KG**

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

which model is **iTHERM TM111, TM131**

Ex marking **See the attachment**

product standard /

drawing number **10000007411, 10000007412, 10000007427, 10000011102**

has been inspected and certified by NEPSI, and that it conforms
to **GB 3836.1-2010,GB 3836.2-2010,GB 3836.4-2010,GB 12476.1-2013,
GB 12476.5-2013**

This Approval shall remain in force until **2024.10.28**

Remarks

- 1.Conditions for safe use are specified in the attachment to this certificate.
- 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment to this certificate.
- 3.Model designation is specified in the attachment to this certificate.
- 4.Safe parameters specified in the attachment to this certificate.
- 5.This certificate is also applicable for the product with the same type manufactured by Endress+Hauser Sicestherm S.r.L. (address: Via Martin Luther King 7, 20060 Pessano con Bornago (MI), Italy) and Endress+Hauser Wetzer (Suzhou) Co., Ltd. (address: No.31 JiangTianLiLu,Suzhou Industrial Park)

Director

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

Issued Date **2019.10.29**

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

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国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

(GYJ19.1378X)

(Attachment I)

Attachment I to GYJ19.1378X

(translation)

1. Description

Temperature sensors typed iTHERM TM111, TM131 manufactured by Endress + Hauser Wetzler GmbH + Co. KG, has been certified by National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI). This product accords with following standards:

GB 3836.1-2010 Explosive atmospheres-Part 1: Equipment-General requirements

GB 3836.2-2010 Explosive atmospheres-Part 2: Equipment protection by flameproof enclosure "d "

GB 3836.20-2010 Explosive atmospheres-Part 20: Equipment with equipment protection level (EPL) Ga

GB 12476.1-2013 Electrical apparatus for use in the presence of combustible dust- Part 1: General requirements

GB 12476.5-2013 Electrical apparatus for use in the presence of combustible dust- Part 5: Protection by enclosures "tD"

The Ex marking is shown in the type code designation, its certificate number is GYJ19.1378X.

Type approved in this certificate is shown as below:

TM111-**abcd**efghijklmnopqrstuv

a indicates approval code, including NF (Ex tD A21 IP66/IP68 T*)

ND (Ex d II C T1~T6 Gb, Ex tD A21 IP66/IP68 T*)

b indicates insert diameter, including A (3mm) or C (6mm);

c indicates sensor type/measuring range/material, including A, B, C, D, E, F, L, M, N or O;

d indicates electrical connection, including 0A, 1A, 2A, 2B, 2C, 3A, 3C, 3D, 4A or 5A;

e indicates terminal head/material/protect. Class, including A1¹⁾, A2¹⁾, D1¹⁾, H1, H2, H3 or H4;

f indicates cable entry, including A, B, C, D or E;

others indicates process connection/material, immersion length "U", lagging length "T", sensor standard/classification, device version, second transmitter (mounted), service, test/certificate/declaration, additional approval, additional option, accessories mounted, calibration thermometer, calibration points $\geq 0^{\circ}\text{C}$, calibration points $\leq 0^{\circ}\text{C}$, firmware version and marking, not relevant for explosion safety.

¹⁾ only possible when designation **d** = NF

TM131-**abcdefghijklmnopqrstuvwxyz**

a indicates approval code, including NF (Ex tD A20/A21 IP66/IP68 T*)

ND (Ex d II C T1~T6 Ga/Gb, Ex tD A20/A21 IP66/IP68 T*)

b indicates thermowell, including A, B, C or D;

c indicates thermometer design, including A, D, E, F, L, M or N;

e indicates thermowell diameter/material, including A1, A2, B1, B2, B3, B4, C1, C2, C3, C4, D1, D2, E1, E2, F1, F2, G1, H1, I1 or I2;

f indicates tip shape, including A, B, C, D, E, F or G;

g indicates sensor type/measuring range/material, including A, B, C, D, E, F, L, M, N, O, P or Q;

h indicates electrical connection, including 0A, 1A, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 3A, 3C, 3D, 4A, 4B, 4C, 5A, 5B or 5C;

m indicates terminal head/material/protect. Class, including A1¹⁾, A2¹⁾, D1¹⁾, F1, F2, H1, H2, H3, H4, H5 or H6;

n indicates cable entry, including A, B, C, D or E;

Others indicates process connection/material, immersion length "U", removable neck length "E", lagging length "T", sensor standard/classification, device version, second transmitter (mounted), service, test/certificate/declaration, additional approval, additional option, accessroy mounted, calibration thermometer, calibration points $\geq 0^{\circ}\text{C}$, calibration points $\leq 0^{\circ}\text{C}$, firmware version and marking, not relevant for explosion safety.

¹⁾ only possible when designation **a** = NF

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, that is:

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

2.2 TM111 temperature sensors with a diameter smaller than 6mm shall be protected by a thermowell.

2.3 TM111 temperature sensors with suffix code **f** = D, E or F shall be protected by a thermowell.

2.4 TM131 temperature sensors shall always be protected by a thermowell.

3. Conditions for Safe Use

3.1 The external earth connection facility should be connected reliably.

3.2 Thermal data:

Type	Electrical connection (TM111 code h TM131 code h)	T class/ Max. surface temperature	Ambient temperature range	Process temperature range	
				Insert diameter	
				3mm, 6mm dual	6mm
TM111 TM131	Terminal block* (1A)	T6/T80°C	-50°C ~ +70°C	-50°C ~ +55°C	-50°C ~ +68°C
		T5/T100°C	-50°C ~ +80°C	-50°C ~ +70°C	-50°C ~ +83°C
		T4/T135°C	-50°C ~ +120°C	-50°C ~ +105°C	-50°C ~ +118°C
		T3/T200°C	-50°C ~ +120°C	-50°C ~ +170°C	-50°C ~ +183°C
		T2/T300°C	-50°C ~ +120°C	-50°C ~ +265°C	-50°C ~ +278°C
		T1/T450°C	-50°C ~ +120°C	-50°C ~ +415°C	-50°C ~ +428°C

	Flying leads (0A) or Transmitter TMT71 (2C) TMT72 (3A) TMT82 (3C, 3D) TMT84 (5A) TMT85 (4A) TMT180 (2A, 2B)	T6/T80°C	-40°C ~ +65°C	-50°C ~ +55°C	-50°C ~ +68°C
		T5/T100°C	-40°C ~ +80°C	-50°C ~ +70°C	-50°C ~ +83°C
		T4/T135°C	-40°C ~ +85°C	-50°C ~ +105°C	-50°C ~ +118°C
		T3/T200°C	-40°C ~ +85°C	-50°C ~ +170°C	-50°C ~ +183°C
		T2/T300°C	-40°C ~ +85°C	-50°C ~ +265°C	-50°C ~ +278°C
		T1/T450°C	-40°C ~ +85°C	-50°C ~ +415°C	-50°C ~ +428°C
		TM131	Transmitter TMT162 (2D, 2E, 2F, 2G, 4B, 4C, 5B, 5C)	T6/T80°C	-40°C ~ +55°C
T5/T100°C	-40°C ~ +70°C			-50°C ~ +70°C	-50°C ~ +83°C
T4/T135°C	-40°C ~ +80°C			-50°C ~ +105°C	-50°C ~ +118°C
T3/T200°C	-40°C ~ +80°C			-50°C ~ +170°C	-50°C ~ +183°C
T2/T300°C	-40°C ~ +80°C			-50°C ~ +265°C	-50°C ~ +278°C
T1/T450°C	-40°C ~ +80°C			-50°C ~ +415°C	-50°C ~ +428°C

note*: In an enclosure with a blind cover: TM111 suffix code **l**/TM131 suffix code **m** = A1, D1, H1 or H3.

Cortem RBFF1NS union:

material	service temperature range
Stainless steel	-50°C ~ +150°C

3.3 Electrical data:

Power supply transmitter: max. 42 Vdc, 30 mA

Sensor: max. 10 Vdc, 1 mA

3.4 As the flameproof product, suitable certified cable glands or blanking plugs for unused holes approved by ExTL according to GB 3836.1-2010 and GB 3836.2-2010 with Ex marking "Ex d II C Gb" shall be used and correctly installed; as the dust product, suitable certified cable glands or blanking plugs for unused holes approved by ExTL according to GB 12476.1-2013 and GB 12476.5-2013 with Ex marking "Ex tD A21 IP66/IP68" shall be used and correctly installed, after installation, degree of protection of enclosure is at least IP66/IP68 according to GB/T 4208-2017. The cable glands and blanking plugs to be used shall suitable for the product working conditions.

3.5 Any maintenance shall be performed only when the warning of "Do not open when energized" is observed.

3.6 Clean the surface of this product termly when using in combustible dust atmosphere.

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

3.8 For installation, use and maintenance of this 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 3836.13-2013 "Explosive atmospheres- Part 13:Equipment repair, overhaul and reclamation".

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

GB/T 3836.16-2017 "Explosive atmospheres- Part 16:Electrical installations inspection and maintenance".
GB 15577-2007 "Safety regulations for dust explosion prevention and protection". (Only if installed in dust hazardous areas)


4. Manufacturer's Responsibility

4.1 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.

4.3 Any modification affecting the explosion protection performance as shown in the documentation approved by NEPSI should not be done, except after NEPSI's reapproval.

4.4 Nameplate should at least show the following

4.4.1 NEPSI logo 

4.4.2 Type of explosion protection

4.4.3 Certificate number

4.4.4 Ambient temperature range

4.4.5 Warning of "Do not open when energized"

National Supervision and Inspection Center
for Explosion Protection and Safety of Instrumentation

2019.10.29



防爆合格证

证号: GYJ19.1378X

由 恩德斯豪斯公司

制造的产品:

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

名称 防爆热电阻 (偶)

型号规格 iTHERM TM111, TM131

防爆标志 见防爆合格证附件

产品标准 /

图样编号 1000007411, 1000007412, 1000007427, 1000011102

经图样及技术文件的审查和样品检验, 确认上述产品符合 GB 3836.1-2010、GB 3836.2-2010、GB 3836.4-2010、GB 12476.1-2013、GB 12476.5-2013 标准, 特颁发此证。

本证书有效期: 2019年10月29日至2024年10月28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. 电气安全参数见本证书附件。

5. 本证书同时适用于Endress+Hauser Sicestherm S. r. L. (地址: Via Martin Luther King 7, 20060 Pessano con Bornago (MI), Italy) 和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。

站长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇一九年十月二十九日

本证书仅对与认可文件和样品一致的产品有效。

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国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for
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(GYJ19.1378X)

(Attachment I)

GYJ19.1378X防爆合格证附件 I

由恩德斯豪斯公司生产的iTHERM TM111, TM131型防爆热电阻（偶），经国家级仪器仪表防爆安全监督检验站(NEPSI)检验，符合下列标准：

GB 3836.1-2010 爆炸性环境 第1部分：设备 通用要求

GB 3836.2-2010 爆炸性环境 第2部分：由隔爆外壳“d”保护的设备

GB 3836.20-2010 爆炸性环境 第20部分：设备保护级别（EPL）为Ga级的设备

GB 12476.1-2013 可燃性粉尘环境用电气设备 第1部分：通用要求

GB 12476.5-2013 可燃性粉尘环境用电气设备 第5部分：外壳保护型“tD”

产品防爆标志见下列型号规格描述，防爆合格证号为GYJ19.1378X。

本证书认可的产品型号规格如下：

TM111-**a b c c d e f g h i j k l m n o p q r s t u v**

a表示防爆认证代码，可为NF（Ex tD A21 IP66/68 T*）

ND（Ex d IIC T1~T6 Gb、Ex tD A21 IP66/68 T*）

b表示传感器直径，可为A（3mm）或C（6mm）；

c表示传感器类型/测量范围/材质，可为A、B、C、D、E、F、L、M、N或O；

d表示电气连接，可为0A、1A、2A、2B、2C、3A、3C、3D、4A或5A；

e表示外壳型号/材质/IP等级，可为A1¹⁾、A2¹⁾、D1¹⁾、H1、H2、H3或H4；

f表示电缆引入规格，可为A、B、C（仅粉尘防爆适用）、D或E；

其余表示过程连接/材质、插入深度、延长颈长度、感温元件标准/分级、设备版本、冗余变送模块（本产品不带）、服务、测试/认证/声明、附加认证、附加信息、安装备件、校准温度计、校准点 $\geq 0^{\circ}\text{C}$ 、校准点 $\leq 0^{\circ}\text{C}$ 、固件版本和标识，与防爆性能无关。

其中，注¹⁾表示仅适用于粉尘防爆（**a**=NF）

TM131-**a b c c d e f g h i j k l m n o p q r s t u v w x y z**

a表示防爆认证代码，可为NF（Ex tD A20/A21 IP66/68 T*）

ND（Ex d IIC T1~T6 Ga/Gb、Ex tD A20/A21 IP66/68 T*）

b表示套管，可为A、B、C或D；

c表示温度计设计，可为A、D、E、F、L、M或N；

d表示套管直径/材质，可为A1、A2、B1、B2、B3、B4、C1、C2、C3、C4、D1、D2、E1、E2、F1、F2、G1、H1、I1或I2；

e表示尖端形状，可为A、B、C、D、E、F或G；

f表示传感器类型/测量范围/材质，可为A、B、C、D、E、F、L、M、N、O、P或Q；

g表示电气连接，可为0A、1A、2A、2B、2C、2D、2E、2F、2G、3A、3C、3D、4A、4B、4C、5A、5B或5C；

h表示外壳型号/材质/IP等级，可为A1¹⁾、A2¹⁾、D1¹⁾、F1、F2、H1、H2、H3、H4、H5或H6；

m表示电缆引入规格，可为A、B、C(仅粉尘防爆适用)、D或E；

其余表示过程连接/材质、插入深度、可拆卸颈长度、延长颈长度、感温元件标准/分级、设备版本、冗余变送模块(本产品不带)、服务、测试/认证/声明、附加认证、附加信息、安装备件、校准温度计、校准点 $\geq 0^{\circ}\text{C}$ 、校准点 $\leq 0^{\circ}\text{C}$ 、固件版本和标识，与防爆性能无关。

其中，注¹⁾表示仅适用于粉尘防爆(**m**=NF)

一、产品安全使用特定条件

防爆合格证号后缀“X”表示该产品安全使用特定条件，内容如下：

- 1、涉及隔爆接合面的维修须联系产品制造商。
- 2、TM111的传感器直径小于6mm时应配备套管保护。
- 3、TM111的代码**m**=D、E或F时应配备套管保护。
- 4、TM131应配备套管保护。

二、产品使用注意事项

- 1、产品外壳设有接地端子，用户在安装使用时应可靠接地。
- 2、温度参数：

产品型号	电气连接 (TM111代码 m TM131代码 m)	温度组别/ 最高表面温度	使用环境温度	介质温度范围	
				传感器直径	
				3mm, 6mm双支	6mm
TM111 TM131	端子座* (1A)	T6/T80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+55 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+68 $^{\circ}\text{C}$
		T5/T100 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+83 $^{\circ}\text{C}$
		T4/T135 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+120 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+105 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+118 $^{\circ}\text{C}$
		T3/T200 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+120 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+170 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+183 $^{\circ}\text{C}$
		T2/T300 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+120 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+265 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+278 $^{\circ}\text{C}$
		T1/T450 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+120 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+415 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+428 $^{\circ}\text{C}$
	悬空引线(0A)或 变送器模块: TMT71(2C) TMT72(3A) TMT82(3C, 3D) TMT84(5A) TMT85(4A) TMT180(2A, 2B)	T6/T80 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+65 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+55 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+68 $^{\circ}\text{C}$
		T5/T100 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+83 $^{\circ}\text{C}$
		T4/T135 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+105 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+118 $^{\circ}\text{C}$
		T3/T200 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+170 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+183 $^{\circ}\text{C}$
		T2/T300 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+265 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+278 $^{\circ}\text{C}$
		T1/T450 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+415 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+428 $^{\circ}\text{C}$
TM131	变送器模块 TMT162(2D, 2E, 2F, 2G, 4B, 4C, 5B, 5C)	T6/T80 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+55 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+55 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+68 $^{\circ}\text{C}$
		T5/T100 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+83 $^{\circ}\text{C}$
		T4/T135 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+105 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+118 $^{\circ}\text{C}$
		T3/T200 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+170 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+183 $^{\circ}\text{C}$
		T2/T300 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+265 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+278 $^{\circ}\text{C}$
		T1/T450 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+415 $^{\circ}\text{C}$	-50 $^{\circ}\text{C}$ ~+428 $^{\circ}\text{C}$

注*：对于不带显示盖的产品：TM111代码**m**、TM131代码**m** = A1、D1、H1或H3

Cortem RBFF1NS单元:

材质	工作温度范围
不锈钢	-50℃~+150℃

3、电气参数:

变送器模块: max. 42 Vdc, 30 mA

单传感器: max. 10 Vdc, 1 mA

4、产品为隔爆型时, 电缆引入口须配用经防爆检验认可的、符合GB 3836.1-2010和GB 3836.2-2010标准、防爆等级Ex d IIC Gb的电缆引入装置或封堵件; 产品为粉尘防爆时, 电缆引入口须配用经防爆检验认可的、符合GB 12476.1-2013和GB 12476.5-2013标准、防爆等级Ex tD A21 IP66/IP68的电缆引入装置或封堵件, 安装后外壳防护等级不得低于GB/T 4208-2017规定的IP66/IP68。选用的电缆引入装置或封堵件应与产品的工作条件相适应。

5、产品在现场维护使用时应遵循“断电源后开盖”的原则。

6、产品在粉尘环境使用维护时, 应定期采取清洁措施, 以防止表面积聚粉尘。

7、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。

8、产品的安装、使用和维护应同时遵守产品使用说明书、GB 3836.13-2013“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 3836.16-2017“爆炸性环境 第16部分: 电气装置的检查与维护”、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 15577-2007“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使用注意事项纳入产品使用说明书;

2、制造厂必须严格按照NEPSI认可的文件资料生产;

3、产品铭牌中应至少包括下列内容:

a) NEPSI认可标志 (见防爆合格证书)

b) 产品防爆标志

c) 防爆合格证号

d) 使用环境温度

e) “断电源后开盖”警告语

国家级仪器仪表防爆安全监督检验站

二〇一九年十月二十九日

