



防爆合格证

证 号: GYJ21.3322

制 造 商 恩德斯豪斯公司

(地址: Hauptstrasse 1, D-79689 Maulburg, Germany)

产 品 名 称 固体音叉限位开关

型 号 规 格 Soliphant M FTM50/51/52 系列

防 爆 标 志 见本证书附件

产 品 标 准 /

图 样 编 号 960006799、960007566

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, GB 3836.20-2010

特颁发此证。

本证书有效期: 2021 年 10 月 20 日 至 2026 年 10 月 19 日

备 注

1. 安全使用注意事项见本证书附件。
2. 本安电气参数见本证书附件。
3. 本证书同时适用于恩德斯豪斯(苏州)自动化仪表有限公司(地址: 苏州工业园区苏虹中路 491 号)生产的同型号产品。
4. [更改 I]: 防爆标准、防爆标志、图样编号更新。2022 年 7 月 12 日签发。



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
颁发日期二〇二一年十月二十日

本证书仅对与认可文件和样品一致的产品有效。

地址: 上海市漕宝路103号
邮编: 200233

网址: www.nepsi.org.cn
Email: info@nepsi.org.cn

电话: +86 21 64368180
传真: +86 21 64844580



SitiAs
Worldwide Access

EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY

Cert No. GYJ21.3322

Manufacturer	Endress+Hauser SE + Co.KG (Address: Hauptstrasse 1, D-79689 Maulburg, Germany)
Product	Level Switch
Model	Soliphant M FTM50/51/52 series
Ex marking	Specified in the attachment
Product standard	/
Drawing number	960006799, 960007566

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

GB/T 3836.1-2021, GB/T 3836.4-2021, GB 3836.20-2010

Valid until: 2026.10.19

Remarks

1. Conditions for safe use are specified in the attachment(s) to this certificate.
2. Intrinsic safety parameters specified in the attachment(s) to this certificate.
3. This certificate is also applicable for the product with the same type manufactured by Endress+Hauser (Suzhou) Automation Instrumentation Co., Ltd. (address: Su Hong Zhong Lu No.491, Suzhou-SIP, China)
4. [Variation I]: Update Ex standards, Ex marking, drawing number. Signed on 2022.07.12.



Approval

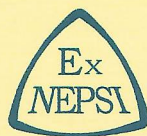
Shanghai Inspection and Testing Institute of
Instruments and Automation Systems Co., Ltd.
National Supervision and Inspection Center for
Explosion Protection and Safety of Instrumentation
Date of issue 2021.10.20

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

103 Cao Bao Road
Shanghai 200233, China

<http://www.nepsi.org.cn>
Email: info@nepsi.org.cn

Tel: +86 21 64368180
Fax: +86 21 64844580



GYJ21.3322防爆合格证附件 II

由恩德斯豪斯公司生产的Soliphant M FTM50/51/52系列固体音叉限位开关，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
产品防爆标志见下述描述，防爆合格证号为GYJ21.3322。

本次认可的产品具体型号规格如下：

FTM50-**a b b c d e f g h i j****+ #

FTM51-**a b b c d e f g h i j****+ #

FTM52-**a b b c d e f g h i j****+ #

其中，**a**表示认证代码，可为X；

bb表示过程连接（任意两位数字或字母），与防爆无关；

c表示材质/接液表面（任意数字或字母），与防爆无关；

d表示总长度（任意数字或字母），与防爆无关；

e表示电子插件，可为5 (FEM55; 8/16mA, 11~35VDC),

7 (FEM57; 2-wire PFM),

8 (FEM58; NAMUR + test button(H-L signal));

f表示传感器类型（分离型电缆最长17m），可为

A（一体型），

D、E（电缆，分体型），

G、H（铠装电缆，分体型）；

g表示外壳，可为3（F17铝合金），

5（F13铝合金），

6（F27不锈钢），

7（F15不锈钢），

H（T13铝合金）；

h表示电缆口规格，可为2 (M20),

3 (½NPT),

4 (G½),

7 (¾NPT);

i表示附加信息1，可为A（无选项），

G（玻璃视窗盖），

其它字母或数字（与防爆无关）；

■表示附加信息2（介质温度相关），可为

FTM 50/51: A (无选项),
C (EN10204-3.1 材质 (接液部件), 检验证明书),
D, E (介质温度≤150℃),
J, K (介质温度≤230℃),
F, H (介质温度≤280℃),
Y (介质温度≤300℃),
FTM 52: 无选项 (介质温度≤80℃)。

****+#**表示备选信息和其他附加信息（与安全性能无关）。

一体型防爆标志 (**■**=A)

型号	代码	防爆标志
FTM50 FTM51	■ =A, C	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6...T3 Ga ¹⁾ Ex ia II C T6...T3 Ga/Gb
	■ =D, E, F, H, J, K, Y	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6...T2 Ga ¹⁾ Ex ia II C T6...T2 Ga/Gb
FTM52	■ =A	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6 Ga ¹⁾ Ex ia II C T6 Ga/Gb

¹⁾ 仅适用于不锈钢外壳F15和F27

分体型外壳防爆标志 (**■**=D, E)

型号	防爆标志
FTM50	Ex ia [ia Da] III C T**°C Da
FTM51	Ex ia [ia Da] III C T ₂₀₀ **°C Da
FTM52	Ex ia [ia Da] III C T**°C Db Ex ia [ia Db] III C T**°C Db Ex ia [ia Gb] II C T6 Gb Ex ia [ia Da] II C T6 Gb Ex ia [ia Db] II C T6 Gb

分体型外壳防爆标志 (F=G, H)

型号	防爆标志
FTM50	Ex ia [ia Da] III C T**°C Da
FTM51	Ex ia [ia Da] III C T ₂₀₀ **°C Da
FTM52	Ex ia [ia Ga] III C T**°C Da
	Ex ia [ia Da] III C T**°C Db
	Ex ia [ia Ga] III C T**°C Db
	Ex ia [ia Db] III C T**°C Db
	Ex ia [ia Gb] II C T6 Gb
	Ex ia [ia Da] II C T6 Ga ¹⁾
	Ex ia [ia Ga] II C T6 Ga ¹⁾
	Ex ia [ia Da] II C T6 Gb
	Ex ia [ia Ga] II C T6 Gb
	Ex ia [ia Db] II C T6 Gb

¹⁾ 仅适用于不锈钢外壳F15和F27

分体型传感器防爆标志 (F=D, E)

型号	代码	防爆标志
FTM50	Ⅱ=A, C	Ex iaⅢC T**℃ Da
FTM51		Ex iaⅢC T ₂₀₀ **℃ Da
		Ex iaⅢC T**℃ Da/Db
		Ex iaⅡC T6...T3 Ga/Gb
	Ⅱ=D, E, F, H, J, K, Y	Ex iaⅢC T**℃ Da
		Ex iaⅢC T ₂₀₀ **℃ Da
		Ex iaⅢC T65℃ Da/Db
		Ex iaⅡC T6...T2 Ga/Gb
FTM52	Ⅱ=A	Ex iaⅢC T**℃ Da
		Ex iaⅢC T ₂₀₀ **℃ Da
		Ex iaⅢC T**℃ Da/Db
		Ex iaⅡC T6 Ga/Gb

分体型传感器防爆标志 (F=G, H)

型号	代码	防爆标志
FTM50 FTM51	F=A, C	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6...T3 Ga Ex ia II C T6...T3 Ga/Gb
	F=D, E, F, H, J, K, Y	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6...T2 Ga Ex ia II C T6...T2 Ga/Gb
FTM52	F=A	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6 Ga Ex ia II C T6 Ga/Gb

一、产品使用注意事项

1、产品型号、温度组别、使用环境温度、介质温度和最高表面温度的关系如下：

II类：

型号	温度组别	介质温度 (传感器)	使用环境温度 (电子外壳)	版本
FTM50, FTM51	T6	-40℃～+80℃ ⑥)	见温度表 ④⑥)	150℃, 300℃
FTM52		-40℃～+80℃		80℃
FTM50, FTM51	T5	-40℃～+95℃ ⑥)	见温度表 ④⑥)	150℃, 300℃
FTM50, FTM51	T4	-40℃～+130℃ ⑥)	见温度表 ④⑥)	150℃, 300℃
FTM50, FTM51	T3	-40℃～+150℃ ⑥)	见温度表 ④⑥)	150℃
FTM50, FTM51	T3	-40℃～+195℃ ⑥)	见温度表 ④⑥)	300℃
FTM50, FTM51	T2	-40℃～+290℃ ⑥)	见温度表 ④⑥)	300℃

III类:

一体型产品:

型号	介质温度 Tp (传感器)	最高表面温度 (传感器)	使用环境温度 Ta (电子外壳)	最高表面温度 (电子外壳)
无粉尘覆盖				
FTM50, FTM51	-40℃～+150℃ 6) -40℃～+300℃ 6)	Tp_max +5K	见温度表 4)6)	Ta_max +5K
FTM52	-40℃～+80℃			
200mm粉尘覆盖				
FTM50, FTM51	见温度表 4)6)	T200**℃ 4)	见温度表 4)6)	T200**℃ 4)
FTM52	见温度表 4)			

分体型产品:

型号	介质温度 Tp (传感器)	最高环境温度 (传感器外壳)	最高表面温度 (传感器)	使用环境温度 Ta (电子外壳)	最高表面温度 (电子外壳)
无粉尘覆盖					
FTM50	-40℃～+150℃ ⁶⁾	120℃	T _{p,max} +5K	见温度表 4)6)	T _{a,max} +5K
FTM51	-40℃～+300℃ ⁶⁾				
FTM52	-40℃～+80℃				
200mm粉尘覆盖					
FTM50	见温度表 4)6)	见温度表 4)6)	T ₂₀₀ **℃ 4)	见温度表 4)6)	T ₂₀₀ **℃ 4)
FTM51					
FTM52	见温度表 4)	见温度表 4)			

⁴⁾ 详见安全指南 (XA00394F) 中的温度表

⁶⁾ 对于外壳F13、F27、T13, 产品最低允许温度-50℃

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

3、根据选用不同的电子插件, 产品具有不同的输出信号; 认可的本安参数如下:

电子插件	最高输入电压	最大输入电流	最大输入功率	最大内部等效参数	
	Ui(V)	Ii(mA)	Pi(W)	Ci(nF)	Li(mH)
FEM55	35	100	1	0	0
FEM57	16.7	150	1	0	0
FEM58	18	52	0.17	30	0

- 4、产品与关联设备的连接电缆应为带绝缘护套的屏蔽电缆，其屏蔽层应接地。
- 5、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。
- 6、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 3836.16-2017“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。

二、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) 安全电气参数

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
二〇二二年七月十二日

注：本附件是对2021年10月20日签发的附件 I 的更新。



(GYJ21.3322)

(Attachment II)

Attachment II to GYJ21.3322
(translation)

1. Description

Soliphant M FTM50/51/52 series Level Switch, manufactured by Endress+Hauser SE+Co. KG, has been certified and 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"

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

The Ex marking is shown as below, its certificate number is GYJ21.3322.

Type approved is as following:

FTM50-**a b b c d e f g h i j****+ #

FTM51-**a b b c d e f g h i j****+ #

FTM52-**a b b c d e f g h i j****+ #

a indicates approval type, including X;

bb indicates process connection, any double number or letter with no Ex relevant;

c indicates material/ process connected surface, any single number or letter with no Ex relevant;

d indicates overall length, any single number or letter with no Ex relevant;

e indicates electronic insert, including 5 (FEM55; 8/16mA, 11~35VDC),

7 (FEM57; 2-wire PFM),

8 (FEM58; NAMUR + test button (H-L signal));

f indicates type of probe, different remote cable length (max. 17m),

including A (compact),

D, E (cable, separate enclosure),

G, H (cable, armoured, separate enclosure);

g indicates enclosure, including 3 (F17 Alu),

5 (F13 Alu),

6 (F27 SS),

7 (F15 SS),

H (T13 Alu);

h indicates cable entry, including 2 (M20), 3 (1/2 NPT), 4 (G1/2) or 7 (3/4 NPT);

i indicates additional option 1, including A (option not selected),

G (glass window cover),

any single number or letter (not relevant for Ex performance);

j indicates additional option 2 (process temperature related),

FTM 50/51: A (not selected),

C (EN10204-3.1 material (wetted parts), inspection certificate),

D, E (process temperature $\leq 150^{\circ}\text{C}$),

J, K (process temperature $\leq 230^{\circ}\text{C}$),

F, H (process temperature $\leq 280^{\circ}\text{C}$),

Y (process temperature $\leq 300^{\circ}\text{C}$),

FTM 52: no additional options (process temperature $\leq 80^{\circ}\text{C}$).

**+# indicates options + additional options, not relevant for safety.

Marking on compact device (F=A)

type	order code	Ex marking
FTM50 FTM51	F=A, C	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6...T3 Ga ¹⁾ Ex ia II C T6...T3 Ga/Gb
	F=D, E, F, H, J, K, Y	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6...T2 Ga ¹⁾ Ex ia II C T6...T2 Ga/Gb
FTM52	F=A	Ex ia III C T**°C Da Ex ia III C T ₂₀₀ **°C Da Ex ia III C T**°C Da/Db Ex ia II C T6 Ga ¹⁾ Ex ia II C T6 Ga/Gb

¹⁾ Only in combination with Stainless Steel enclosures F15 and F27

Marking on remote enclosure (F=D, E)

type	Ex marking
FTM50	Ex ia [ia Da] III C T**°C Da
FTM51	Ex ia [ia Da] III C T ₂₀₀ **°C Da
FTM52	Ex ia [ia Da] III C T**°C Db Ex ia [ia Db] III C T**°C Db Ex ia [ia Gb] II C T6 Gb Ex ia [ia Da] II C T6 Gb Ex ia [ia Db] II C T6 Gb

Marking on remote enclosure (F=G, H)

type	Ex marking
FTM50	Ex ia [ia Da] III C T ^{**} °C Da
FTM51	Ex ia [ia Da] III C T ₂₀₀ ^{**} °C Da
FTM52	Ex ia [ia Ga] III C T ^{**} °C Da
	Ex ia [ia Da] III C T ^{**} °C Db
	Ex ia [ia Ga] III C T ^{**} °C Db
	Ex ia [ia Db] III C T ^{**} °C Db
	Ex ia [ia Gb] II C T6 Gb
	Ex ia [ia Da] II C T6 Ga ¹⁾
	Ex ia [ia Ga] II C T6 Ga ¹⁾
	Ex ia [ia Da] II C T6 Gb
	Ex ia [ia Ga] II C T6 Gb
	Ex ia [ia Db] II C T6 Gb

¹⁾ Only in combination with Stainless Steel enclosures F15 and F27

Marking on remote probe (F=D, E)

type	order code	Ex marking
FTM50	F=A, C	Ex ia III C T ^{**} °C Da
FTM51		Ex ia III C T ₂₀₀ ^{**} °C Da
		Ex ia III C T ^{**} °C Da/Db
		Ex ia II C T6...T3 Ga/Gb
	F=D, E, F, H, J, K, Y	Ex ia III C T ^{**} °C Da
		Ex ia III C T ₂₀₀ ^{**} °C Da
		Ex ia III C T65°°C Da/Db
		Ex ia II C T6...T2 Ga/Gb
FTM52	F=A	Ex ia III C T ^{**} °C Da
		Ex ia III C T ₂₀₀ ^{**} °C Da
		Ex ia III C T ^{**} °C Da/Db
		Ex ia II C T6 Ga/Gb

Marking on remote probe (F=G, H)

type	order code	Ex marking
FTM50	F=A, C	Ex ia III C T ^{**} °C Da
FTM51		Ex ia III C T ₂₀₀ ^{**} °C Da
		Ex ia III C T ^{**} °C Da/Db
		Ex ia II C T6...T3 Ga
		Ex ia II C T6...T3 Ga/Gb

	Ⅱ=D, E, F, H, J, K, Y	Ex iaⅢC T**°C Da Ex iaⅢC T ₂₀₀ **°C Da Ex iaⅢC T**°C Da/Db Ex iaⅡC T6...T2 Ga Ex iaⅡC T6...T2 Ga/Gb
FTM52	Ⅱ=A	Ex iaⅢC T**°C Da Ex iaⅢC T ₂₀₀ **°C Da Ex iaⅢC T**°C Da/Db Ex iaⅡC T6 Ga Ex iaⅡC T6 Ga/Gb

2. Conditions for Safe Use

2.1 The max. surface temperatures under fault conditions depends on the version, maximum ambient temperature and the process temperature, as listed in the following tables:

For group II:

Type	Temperature class	Medium temperature (sensor)	Ambient Temperature (electronic)	Version
FTM50, FTM51	T6	-40°C~+80°C ⁶⁾	See derating ^{4) 6)}	150°C and 300°C
FTM52		-40°C~+80°C		80°C
FTM50, FTM51	T5	-40°C~+95°C ⁶⁾	See derating ^{4) 6)}	150°C and 300°C
FTM50, FTM51	T4	-40°C~+130°C ⁶⁾	See derating ^{4) 6)}	150°C and 300°C
FTM50, FTM51	T3	-40°C~+150°C ⁶⁾	See derating ^{4) 6)}	150°C
FTM50, FTM51	T3	-40°C~+195°C ⁶⁾	See derating ^{4) 6)}	300°C
FTM50, FTM51	T2	-40°C~+290°C ⁶⁾	See derating ^{4) 6)}	300°C

For group III:

For dust without remote enclosure:

Type	Medium temperature T _p (sensor)	Max. surface Temp. (sensor)	Ambient Temperature T _a (electronic)	Max. surface temperature T electronic enclosure
Without a dust layer				
FTM50, FTM51	-40°C~+150°C ⁶⁾ -40°C~+300°C ⁶⁾	T _{p,max} +5K	See derating ^{4) 6)}	T _{a,max} +5K
FTM52	-40°C~+80°C			

With a dust layer of 200mm					
FTM50, FTM51	See derating ^{4) 6)}	$T_{200}^{**} \text{ }^{\circ}\text{C}$ ⁴⁾	See derating ^{4) 6)}	$T_{200}^{**} \text{ }^{\circ}\text{C}$ ⁴⁾	
FTM52	See derating ⁴⁾				

For dust with remote enclosure:

Type	Medium temperature T_p (sensor)	Max. ambient temperature probe enclosure	Max. surface Temp. (sensor)	Ambient Temperature T_a (electronic)	Max. surface temperature T electronic enclosure
Without a dust layer					
FTM50	$-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$ ⁶⁾	120 $^{\circ}\text{C}$	$T_{p_max} +5\text{K}$	See derating ^{4) 6)}	$T_{a_max} +5\text{K}$
FTM51	$-40^{\circ}\text{C} \sim +300^{\circ}\text{C}$ ⁶⁾				
FTM52	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$	80 $^{\circ}\text{C}$			
With a dust layer of 200mm					
FTM50	See derating ^{4) 6)}	See derating ^{4) 6)}	$T_{200}^{**} \text{ }^{\circ}\text{C}$ ⁴⁾	See derating ^{4) 6)}	$T_{200}^{**} \text{ }^{\circ}\text{C}$ ⁴⁾
FTM51					
FTM52	See derating ⁴⁾	See derating ⁴⁾			

⁴⁾ refer to derating table in the safety instructions (XA00394F).

⁶⁾ enclosure F13, F27, T13: the minimum temperature is -50°C .

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

2.3 The output signal can be different depending on the different electronic insert; the intrinsically safe parameters are shown as following:

Electronic insert	$U_i(\text{V})$	$I_i(\text{mA})$	$P_i(\text{W})$	$C_i(\text{nF})$	$L_i(\text{mH})$
FEM55	35	100	1	0	0
FEM57	16.7	150	1	0	0
FEM58	18	52	0.17	30	0

2.4 Connecting cable between this product and associated apparatus should be insulated screen cable; connect the cable screen functionally to earth ground.

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

2.6 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/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 3836.16-2017 "Explosive atmospheres- Part 16:Electrical installations inspection and maintenance".

GB/T 3836.18-2017 "Explosive atmospheres-Part 18: Intrinsically safe electrical systems".

GB 15577-2018 "Safety regulations for dust explosion prevention and protection". (Only if installed in dust hazardous areas).

3. Manufacturer's Responsibility

3.1 Conditions for safe use, as specified above, should be included in the documentation the user is provided with.

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

3.3 Marking should show the following

3.3.1 NEPSI logo 

3.3.2 Type of explosion protection

3.3.3 Certificate number

3.3.4 Ambient temperature range

3.3.5 Electric data

Shanghai Inspection and Testing Institute of
Instruments and Automation Systems Co., Ltd.
National Supervision and Inspection Center for
Explosion Protection and Safety of Instrumentation
2022.07.12

Note: This attachment is the amendment to the attachment I issued on 2021.10.20.