

UNIK5000

(不包括型号 5#0#)

压力传感器

在危险区域操作要求

NEPSI 本质安全型 隔爆型

English	1 - 4
中文	5 - 8



A1

[1]		UNIK 5#00 PRESSURE SENSOR	
[2]		#### 5###[#]-T#-A#-C#-##-##-#####	
[3]		##### ACCURACY	
[4]		##### - ##### ##### #	 ### - ### # #####
[5]		### - ### Vdc ## mA	S/N ##### DD/MM/YY
[8]		GYJ23.1084X	
[9]	☐	Ex ia IIC T5 Ga (-40°C<=Ta<=80°C)	
[11]	☐		
[12]		DRUCK LTD. LEICESTER, LE6 0FH, UK	MADE IN #####

A2

		Ui (V)	Ii (mA)	Pi (W)	Ci (nF)	Li (μH)
PMP	5##3					
	5##4					
	5##5	16	299	1.0	367.4+ 1	0+ 1
	5##6					
PDCR	5##0	24	261	1.0	3.3+ 2	0+ 2
	5##1	24	261	1.0	14.3+ 3	0+ 3
PTX	5##2	28	180	0.7	63.8+ 4	0+ 4

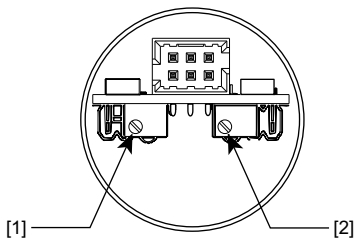
A3

	D (m)	C (pF/m)	L (μH/m)
1	≤149	618	1.37
2	≤196	618	1.37
3	≤179	618	1.37
4	≤100	191	1.37

A4

	C (nF)	L (μH)
1	92	204
2	121	269
3	110	245
4	19	137

A5



B1

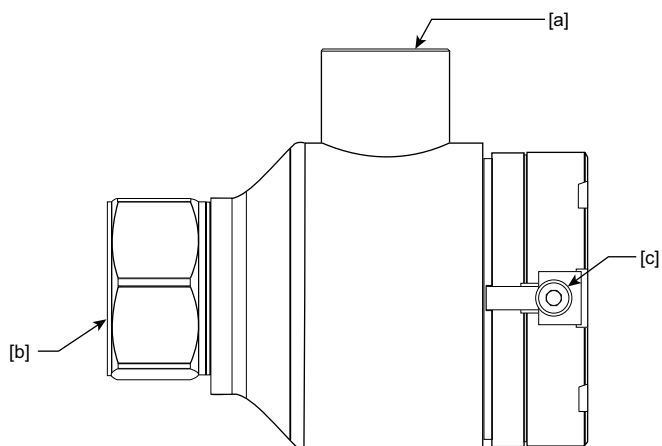
[1]	 UNIK 5900 PRESSURE SENSOR #### 59##-T#-A#-C#-H#-## ##### ACCURACY 	[2]
	 ##### - ##### ##### ##  ### - ### Vdc ## mA  ### - ### ## ##### S/N ##### DD/MM/YY	[3] [4]
[8]	DRUCK LTD. LEICESTER, LE6 0FH, UK	MADE IN UK
		[9]

[6]	Ex d IIC T* Gb ☐ T6 (-40°C ≤ Ta ≤ +70°C) ☐ T5 (-40°C ≤ Ta ≤ +80°C) ☐ T4 (-40°C ≤ Ta ≤ +100°C)		[5]
[7]	☐	GYJ21.2858X	
[10]	CABLE ENTRY POINT MAY BE Ta +10°C 电缆入口点可能是Ta +10°C		

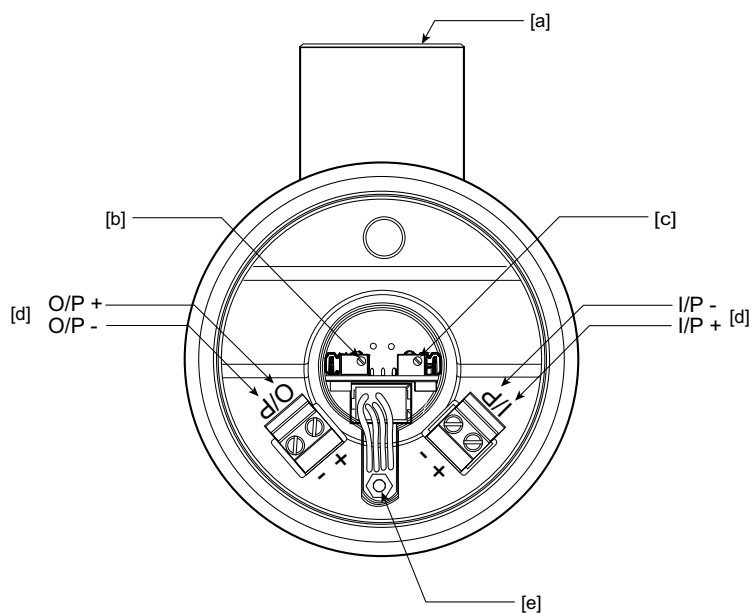
[11]

DO NOT OPEN WHEN FLAMMABLE
ATMOSPHERE IS PRESENT
存在易燃气体时请勿打开

B2



B3



Requirements in Hazardous Areas

The original language of these instructions is English.

The data that follows is only applicable to equipment with the specified marking details.

The equipment for use in potentially explosive atmospheres complies with Chinese certification requirements.

Read and understand all the related data before installing and using the equipment. This includes: all local safety procedures and installation standards, this document, and the product datasheet or, if applicable, the specification drawing.

Relevant installation standards:

- GB/T 3836.13-2021
- GB 3836.15-2024
- GB 3836.16-2024
- GB/T 3836.18-2024
- GB 50257-2014

A copy of the NEPSI type-examination certificate is available from the manufacturer.

To install and use the equipment in potentially explosive atmospheres ("hazardous areas"), use only approved engineers who have the necessary skills and qualifications.

1. UNIK5000



WARNING Do not use tools on the pressure sensor that might cause incandive sparks – this can cause an explosion.

Do not do live maintenance while an explosive atmosphere is present – this can cause an explosion. Use a safe work procedure. Refer to "Connections to Other Equipment" for permitted work.

Marking Details

Refer to Figure A1, and the explanation below:

1. Product description.
2. Model number – To identify the meaning, refer to the product datasheet. If the model number is followed by four or eight numbers, '####' or '#####', refer to the manufacturer's specification drawing E-A3-#### or #####.
3. Accuracy specification – refer to the product datasheet or specification drawing (if applicable).
4. Input: pressure range limits.
5. Input: power supply voltage range and current limits.
6. Output: signal voltage or current range.
7. Serial number; date of manufacture.
8. Certificate number.
9. Hazardous area markings.
10. NEPSI markings.
11. Reserved for other certification markings (if applicable).
12. Certificate holder's name and address.
13. Country of assembly: made in UK/China.

Pressure Sensor Materials

The materials used for the primary enclosure and pressure bearing surfaces are identified in the product datasheet or, if applicable, the specification drawing.

Make sure that the materials are applicable for the installation.

Installation

Before using the equipment, remove the plastic/rubber protection cap from the pressure connector.

External Temperature Limits

The permitted ambient temperature range for the equipment is -40°C to +80°C. Make sure the process media also stays within these limits.

Position

Attach the equipment in a safe configuration that prevents unwanted stress (vibration, physical impact, shock, mechanical and thermal stresses). Do not install the equipment where it can be damaged by a material that causes corrosion. Provide additional protection for equipment that may be damaged in service.

Ingress Protection

As specified by the certification, the enclosure has a minimum ingress protection rating (IP) when correctly installed.

Protection Type and Group	Ingress Protection
Intrinsically Safe 'ia', Group II	IP20 minimum

Note: The enclosure can have a higher IP rating - refer to the datasheet or, if applicable, the specification drawing.

When installed, the electrical connectors and wiring must provide the minimum ingress protection (IP) rating indicated above.

Some models feature a white PTFE vent filter in the wall of the enclosure. Make sure the vent filter is correctly installed and is flush with the enclosure body.

Identification of Markings Put Into Use

The product may have been provided with markings for more than one method of protection. The method or methods put into use must be indicated by marking the adjacent box (see Figure A1, items 9 or 11).

The wall of the enclosure (except 59## models) may only be 0.5 mm thick. The method of marking must not dent, pierce or damage the product enclosure. The use of impact stamps and engraving is not permitted.

The wall of the 59## enclosure may only be 2.4 mm thick. The method of marking must not dent, pierce or damage the product enclosure. Engraving is allowed. Impact stamps may be used, take care not to crack the enclosure.

Electrical Connections

To identify the electrical connections, refer to the product datasheet or, if applicable, the specification drawing.

The power supply and signal connections to the pressure sensor must be made via certified intrinsically safe associated apparatus, where the output current is limited by a resistor (R) such that $I_o = U_o / R$.

The circuit must be intrinsically safe, in accordance with standard GB/T 3836.18-2024.

Table A2 gives the maximum input voltage (Ui), current (Ii), power (Pi), capacitance (Ci) and inductance (Li) values for the pressure sensor.

Table A3 refers to the capacitance (C) and inductance (L) of the factory-fitted cable that may be supplied with the sensor. Any length of cable may be provided, up to a maximum limit specified in column D.

Table A4 refers to the maximum cable capacitance (C) and inductance (L) that may be fitted by the installer to sensors supplied without factory-fitted cable.

To prevent damage that can affect the protection rating, do not use flat screwdriver blades with tapered edges. Terminate the ends of stranded wire with crimped core sleeves.

Where a 'SHUNT CAL' terminal has been provided for test purposes, it shall only be connected to the '-VE SUPPLY' terminal within the hazardous area.

Where a 'CASE' terminal has been provided, it shall not be used for electrically bonding the enclosure to earth.

Connect the earth/ground connections that are applicable to the installation. If applicable, make sure the cable screen is isolated from the pressure sensor.

PTX and PDCR variants are resistant to an AC test voltage of 500 V RMS as specified in GB/T 3836.4-2021. PMP variants are not resistant to the test voltage, and this must be taken into account during installation.

Zero and Span Adjustment

For some models the enclosure can be opened and the zero and span potentiometers adjusted. Use an insulated potentiometer adjustment tool. Do not open the enclosure when an explosive atmosphere is present.

Refer to Figure A5 and the explanation below:

1. Zero adjustment potentiometer
2. Span adjustment potentiometer

Take care to disassemble and assemble the electrical connector correctly. Ensure items, o-rings and gasket are properly located.

Connections to Other Equipment

To re-calibrate these models at the installation, refer to "Zero and Span Adjustment" and "Warning" statements.

Before connecting a pressure calibrator, make sure it is certified "intrinsically safe" and that all the electrical connections are intrinsically safe. Stay within the permitted limits for the electrical system.

Maintenance

Clean the case with a moist, lint-free cloth and a weak detergent. Refer also to "Installation" and "Repair".

Repair

Do not try to do repairs to this equipment. Return the equipment to the manufacturer or an approved service agent.

Specific Conditions of Use

The suffix "X" of the explosion-proof certificate number indicates that the product has special conditions for safe use. The specific conditions are as follows:

1. If the equipment has non-metallic external surfaces, these are a possible electrostatic hazard. Do not rub them with a dry-cloth or install them in a high velocity dust laden atmosphere.
2. PMP variants will not pass the 500 V RMS dielectric strength test. The associated equipment shall be equipped with an isolated safety barrier; if a Zener safety barrier is selected, it shall meet the requirements of GB 3836.15-2024 for the grounding of intrinsically safe circuits.
3. 57## models only: The product enclosure contains light metals, which are considered to be a potential frictional ignition risk. It must be mounted such that it is protected from impact or friction.

2. UNIK5900



WARNING Do not use tools on the pressure sensor that may cause incendive sparks. This can cause an explosion.

Do not install, remove, open or adjust the pressure sensor in a hazardous area while explosive atmospheres are present. This can cause an explosion.

Do not do live maintenance while an explosive atmosphere is present. This can cause an explosion. Use a safe work procedure. Refer to zero and span adjustment for permitted activities.

Marking Details

Refer to Figure B1, and the explanation below:

1. Product description and details (e.g. range, model number, accuracy specification etc.).
2.  'Caution' / 'Warning' symbol. To install and use this equipment in the specified hazardous area, read, understand and comply with this document.
3. Pressure and electrical ratings.
4. Serial number; date of manufacture.
5. Certificate number.
6. Hazardous area markings. (see note)
Note: Dependent on the approval option supplied.
7. Reserved for other certification markings (if applicable).
8. Certificate holder's name and address.
9. Country of assembly: 'MADE IN UK'.
10. Cable temperature rating information: CABLE ENTRY POINT MAY BE Ta +10°C.
11. Warning marking: DO NOT OPEN WHEN A FLAMMABLE ATMOSPHERE IS PRESENT.

Pressure Sensor Materials

The materials used for the primary enclosure and pressure bearing surfaces are identified in the product datasheet or, if applicable, on the specification drawing.

Make sure that the materials are applicable for the installation.

Installation

Before using the equipment, remove the plastic/rubber protection cap from the pressure connector.

External Temperature Limits

The permitted ambient temperature range for the equipment is -40°C to +100°C. While it is considered that the temperature of the associated process media will be localized within its vessel and pipework etc, make sure that it does not exceed these limits at the pressure sensor.

Position

Attach the equipment in a safe configuration that prevents unwanted stress (vibration, physical impact, shock, mechanical and thermal stresses). Do not install the equipment where it can be damaged by a material that causes corrosion. Provide additional protection for the equipment if it may be damaged in service.

Ingress Protection

As specified by the certification, the enclosure has a minimum ingress protection rating of IP64 when correctly installed.

Note: The enclosure can have a higher IP rating, but this has not been assessed by NEPSI. Refer to the datasheet or, if applicable, the specification drawing.

Note: Some models feature a white PTFE vent filter in the wall of the enclosure. Make sure the vent filter is correctly installed and is flush with the enclosure body.

End-cap and Bonding Facility

Refer to Figure B2, and the explanation below:

- a. Cable entry/Equi-potential bonding facility.
- b. Pressure connector/Equi-potential bonding facility.
- c. M4 x 0.7 Hexagon cap screw and clip locking mechanism.

An end-cap retainer clip and screw prevents the accidental removal of the end-cap. See Figure B2, item c.

Before energizing the pressure sensor for use in a potentially explosive atmosphere, always install the end-cap, engage the retainer and fully tighten the screw.

Facilities for equi-potential bonding are provided either through the process connection or the cable entry facility.

Identification of Markings Put into Use

The product may have been provided with markings for more than one method of explosion protection and more than one temperature class, surface and ambient temperature. The method, or methods, put into use must be indicated by marking the adjacent box. See Figure B1, items 6 and 7.

The wall of the enclosure may only be 2.4 mm thick. The method of marking must not dent, pierce or damage the enclosure. Engraving is allowed. Impact stamps may be used, take care not to crack the enclosure.

Electrical Connections

Refer to Figure B3, and the explanation below:

- a. M20 x 1.5 female conduit entry.
- b. Span adjustment potentiometer.
- c. Zero adjustment potentiometer.
- d. Electrical terminals: refer to the product datasheet or, if applicable, the specification drawing.
- e. Internal earth (ground) connection: crimp terminal, screw and shake proof washer (not shown).

The cable entry to the electronics housing is M20 x 1.5 (Model 59B#). Units can be supplied with a ½" NPT thread adapter (Model 59J#) – refer to the manufacturer's installation instructions.

Use an appropriate cable or conduit system and a suitably certified enclosure if the cable is to be terminated in a hazardous area.

Note: The cable entry point may reach 10°C above ambient temperature. Use a suitably rated cable.

With the effects of loop resistance included, make sure that the voltage supplied at the terminals does not exceed the pressure sensor's marked input voltage. See Figure B1, item 3.

Connect the earth/ground connections that are applicable to the installation. Tighten the internal earth connection screw to 50 cNm.

Zero and Span Adjustment

Refer to the calibration certificate for instructions. Do not open the enclosure and perform adjustment when an explosive atmosphere is present.

Maintenance

Users are not allowed to replace the electrical parts of the product at will, and should work with the product manufacturer to solve the faults in operation, so as not to affect the explosion-proof performance and damage phenomenon.

Clean the pressure sensor case with a moist, lint-free cloth and weak detergent. Make sure that there is no damage to the enclosure/end-cap threads and o-ring, and that they are free of corrosion, grit and other obstructions.

Clean regularly when the pressure sensor is located where there is a risk of the build-up of a layer of combustible dust.

Repair

Do not try to repair this equipment and components. Return the equipment to the manufacturer or an approved service agent.

Specific Conditions of Use

1. When used in dust atmospheres the cable entry devices utilised with unit are to be sealed in accordance with GB 3836.15-2024 to maintain the IP6X ingress protection level.
2. These units have a maximum designed service life of 50 years, based on an average cyclic operation rate of 80 cycles per day.
3. External equipotential earth bonding may be made either through the process (pressure) connection or the cable entry facility. Electrical continuity between the equipment body and earth (ground) shall be confirmed by test.

在危险区域操作要求

本说明书的原始语言为英语。

如下内容仅适用于带有指定标志的设备。

该设备在易爆环境中的使用符合中国认证要求。

安装和使用该设备前，请阅读并理解所有相关信息。这包括：所有当地的安全程序和安装标准、本文档，以及产品数据表或（如适用）规范图纸。

相关的安装标准：

- GB/T 3836.13-2021
- GB 3836.15-2024
- GB 3836.16-2024
- GB/T 3836.18-2024
- GB 50257-2014

制造商可提供 NEPSI 型式认证证书。

必须由具备必要技能和资质的工程人员，在易爆环境（“危险区域”）中安装和使用本设备。

1. UNIK5000



警告 请勿在压力传感器上使用可能导致易燃火花的工具，否则可能引起爆炸。

当存在爆炸性空气时，切勿进行现场维护，否则可能发生爆炸。采用安全的工作流程。有关许可的工作，请参考“与其他设备的连接”。

认证标志情况

参见图 A1 以及如下注解：

1. 产品说明
2. 型号 – 要确定其含义，请参考产品数据表。如果型号后跟 4 个数字 ‘####’ 或 8 个数字 ‘#####’，请参考制造商的规范图纸 E-A3-#### 或 #####。
3. 精度规格 – 请参考产品数据表或规范图纸（如适用）。
4. 输入：压力范围限制。
5. 输入：电源电压范围和电流限制。
6. 输出：信号电压或电流范围。
7. 序列号；生产日期。
8. 证书编号。
9. 危险区域标志。
10. NEPSI 标志。
11. 保留用于其他认证标志（如适用）。
12. 证书持有者名称和地址。
13. 装配国：英国 / 中国制造。

压力传感器材质

产品主体外壳和承压面采用的材质标识在产品数据表或（如适用）规范图纸中。

确保这些材料适用于系统。

安装

使用设备之前，从压力接头上拆下塑料 / 橡胶保护盖。

外部温度限制

该设备的许可环境温度介于 -40°C 至 +80°C 之间。确保工艺介质也保持在此限制范围内。

位置

请将设备安装在不可以防范意外情况（振动、物理影响、冲击、机械和热应力）的安全环境中。不要将本设备安装可能容易被导致材料腐蚀损害的地方。请为在使用期间可能受损的设备提供额外保护。

进入保护

按照证书所规定的，正确安装情况下机箱具有最低等级进入保护 (IP)。

防护等级	进入保护
本质安全型 ‘ia’，II 类	最低 IP20

注：产品外壳可有较高 IP 等级 – 请参考数据表或（如适用）规范图纸。

安装后，电气接头和接线必须提供上述最低进入保护等级 (IP)。

有些型号在机箱壁上设有白色 PTFE 通过滤器。确保通风过滤器安装正确，且与机箱箱体齐平。

投入使用的标志识别

本产品可能提供一种以上的防护方法标志。这个或这些投入使用方法必须如产品标志所指示（请参见图 A1，9 或 11 项）。

外壳壁（59## 型号除外）可能只有 0.5 mm 厚。标志方法必须不能使机箱凹陷，戳穿或损坏产品外壳。不允许使用冲击戳和雕刻方法。

59## 的机箱壁可能仅有 2.4 mm 厚。标志方法必须不能使机箱凹陷，戳穿或损坏产品机箱。允许进行雕刻。可以使用冲击戳，但注意不要使机箱开裂。

电气连接

要确定电气连接，请参考产品数据表或（如适用）规范图纸。

压力传感器的电源和信号线路连接必须根据设备相关的本质安全认证制造，其中输出电流受电阻限制 (R)，使得 $I_o = U_o / R_o$ 。

电路必须根据标准 GB/T 3836.18-2024 达到本质安全。

表 A2 给出压力传感器的最大输入电压 (Ui)、电流 (Ii)、功率 (Pi)、电容 (Ci) 和电感 (Li) 值。

表 A3 是可能随传感器提供的工厂装配电缆的电容 (C) 和电感 (L)。可能提供任意长度的电缆，最长可达 D 列中指定的最大限制。

表 A4 是安装人员可装配到未提供工厂装配电缆的传感器的最大电缆电容 (C) 和感应系数 (L)。

为防止出现可能影响防护等级的损坏，不要使用锥形边缘的平口螺丝刀。使用卷曲芯套固定绞线端。

其中“SHUNT CAL”端提供用于测试目的，仅在危险区域中连接到“-VE SUPPLY”端。

当存在“CASE”端时，不可用于产品外壳与接地的连接。连接适用于安装的接地线路。如果适用，请确保电缆屏蔽层与压力传感器相隔离。

PTX 和 PDCR 改装型号可以承受 GB/T 3836.4-2021 规定的 500 V RMS 交流测试电压。PMP 改装型号不可承受测试电压，必须在安装过程中考虑到这一点。

零位和量程调整

对于有些型号，可以打开机箱进行零位和量程电位计调整。使用绝缘的电位计调整工具。当存在爆炸性空气时，请勿打开机箱。

参考图 A5 和以下说明：

- 1. 调零电位计
- 2. 量程调整电位计

注意正确拆卸和装上电气接头。确保部件、O 形圈和垫圈定位正确。

与其他设备的连接

要在安装时对这些型号进行重新校准，请参考“零位和量程调整”以及“警告”声明。

连接压力校验仪前，确保其已获得“本质安全”认证，并且所有电气连接符合本质安全要求。注意不超出电气系统的许可限制。

维护

请使用不带棉绒的湿布和较温和的清洁剂清洁该设备。另请参考“安装”和“维修”。

维修

请勿试图修理本设备。请将设备返交给制造商或经核准的维修机构。

特殊的安全使用事项

防爆合格证号后缀“X”代表产品具有安全使用特殊条件，具体内容如下：

- 1. 如果设备有非金属外表，则存在可能的静电危险。请勿使用干布擦拭或将其安装在高速流动的含尘空气中。
- 2. PMP 改装型号不可经受 500 V RMS 绝缘强度试验。其关联设备应配用隔离式安全栅；如选用齐纳式安全栅，应符合 GB 3836.15-2024 标准关于本安电路接地的要求。
- 3. 仅适用于 57## 型号：本产品机箱包含轻金属，这被认为是一种潜在的摩擦燃烧危险。其安装方式必须注意防护这类冲击或摩擦。

2. UNIK5900



警告 请勿在压力传感器上使用可能导致易燃火花的工具，否则可能引起爆炸。

当存在爆炸性环境时，请勿安装，拆卸，打开或调整压力传感器，否则可能发生爆炸。

当存在爆炸性空气时，切勿进行现场维护，否则可能发生爆炸。采用安全的工作流程。有关许可的工作，请参考“与其他设备的连接”。

认证标志情况

参见图 B1 以及如下注解：

- 1. 产品说明和描述（如范围，型号，精度等）。

- 2.  警告标识 要在规定的危险区域安装和使用本设备，请阅读、理解和遵守本文档。
- 3. 压力和电气参数范围。
- 4. 序列号，生产日期。
- 5. 认证证书编号。
- 6. 危险区域标志（见备注）
注：取决于所提供的型式认证选型。
- 7. 保留用于其他认证标志（如适用）。
- 8. 证书持有者名称和地址
- 9. 装配国：英国制造
- 10. 电缆温度范围信息：电缆入口点可能是 Ta+10 °C
- 11. 警告标志：存在易燃气体时请勿打开

压力传感器材质

主体外壳和承压面采用的材质标识在产品数据表或（如适用）规范图纸中。

确保这些材料适用于系统。

安装

使用设备之前，从压力接头上拆下塑料 / 橡胶保护盖。

外部温度限制

该设备的许可环境温度介于 -40°C 至 +10°C 之间。如果相关工艺介质需要装在设备的容器或管道中时，请确保介质不超过压力传感器的这些限制。

位置

请将设备安装在可以防范意外情况（振动、物理影响、冲击、机械和热应力）的安全环境中。不要将本设备安装在可能被易导致材料腐蚀损害的地方。请在在使用期间可能受损的设备提供额外保护。

进入保护

按照证书所规定的，正确安装情况下机箱具有最低 IP64 的进入保护等级。

注：产品外壳可具有较高 IP 等级，但这个没有被 NEPSI 防爆证书评估，参见数据表，如适用，参见规范图纸。

注：有些型号在机箱壁上设有白色 PTFE 通过滤器。确保通过滤器安装正确，且与机箱箱体齐平。

端帽与连接装置

参见图 B2 以及如下注解：

- a. 电缆引入 / 等电位连接装置
- b. 压力接头 / 等电位连接装置
- c. M4X0.7 六角螺钉和夹紧装置

端帽固定夹和螺钉可防止以外拆卸端帽，见图 B2 的 C 项。

在潜在易爆环境给传感器通电前，通常需要安装端帽，装好固定器并安全拧紧螺钉。

通过工艺连接或电缆引入装置提供用于等电位连接的装置。

投入使用的标志识别

本产品可能提供一种以上的防护方法标志和一种以上温度等级，表面和环境温度。产品投入适用方法必须如产品标志所示（请参见图 B1，6 或 7 项）。

外壳壁可能仅有 2.4 mm 厚。标志方法必须不能使机箱凹陷，戳穿或损坏产品机箱。允许进行雕刻。可以使用冲击戳，但注意不要使机箱开裂。

电气连接

参见图 B3 以及如下注解：

- a. M20x1.5 母管道入口；
- b. 量程调整电位计
- c. 调零电位计
- d. 电气端子：参考产品数据表或（如果适用）规范图纸
- e. 内部接地连接：压线端子，螺钉，防震垫圈（未显示）

电气连接的电缆引入口是 M20x1.5（型号 59B#），可提供一个 1/2 NPT 螺纹适配器（型号 59J#）- 请参阅制造商的安装说明。

如果电缆使用在危险区域，请适用适当的电缆或导管系统和合适认证的外壳。

注：电缆入口温度可能高于环境温度 10 °C。

考虑到回路电阻的影响，确保在端子处提供的电压不超过压力传感器标记的输入电压。见图 B1，第 3 项。

连接适用于安装的接地线。将内部接地螺钉拧紧至 50cNm。

零位和量程调整

有关说明请参阅校准证书。在爆炸性环境下，请勿打开外壳进行调节。

维护

用户不得随意更换产品的电气部件，并应配合产品厂家解决运行中出现的故障，以免影响防爆性能和损坏现象。

请使用不带棉绒的湿布和较温和的清洁剂清洁该设备。确保外壳 / 端盖螺纹和 o 形圈没有损坏，没有腐蚀、沙粒和其他障碍物。

当压力传感器位于有积聚可燃粉尘危险的地方时，应定期清洁。

维修

请勿试图修理本设备或部件，请将设备返交给制造商或经核准的维修机构。

特殊的安全使用事项

防爆合格证号后缀“X”代表产品具有安全使用特殊条件，具体内容如下：

1. 当在粉尘环境中适用时，与设备一起适用的电缆引入装置应按照 GB 3836.15-2024 进行密封，以保持 IP6X 进入防护等级。
2. 本产品基于平均每天 80 次操作的基础上，最大设计运行的寿命为 50 年。

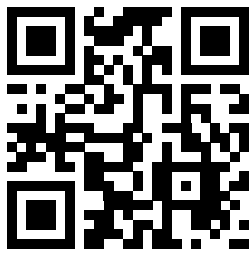
3. 外部等电位连接可能通过过程压力连接件或电缆引入装置来实现，设备本身与地之间的电器连续性应通过测试来确认。

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