



EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY

Cert No. GYJ071175X

This is to certify that the product

Transmitter

manufactured by Micro Motion, Inc.
(Address: Boulder, Co. 80301, USA)

which model is 1500 Series; 2500 Series

Ex marking [Ex ib] II B/II C

product standard --

drawing number --

has been inspected and certified by NEPSI, and that it conforms
to GB3836.1 - 2000, GB3836.4 - 2000

This Approval shall remain in force until 2012.06.05

- Remarks**
1. This certificate also cover the Transmitter with the same type that manufactured by Emerson Process Management Co., Ltd. (Address: No.1277, Xin Jin Qiao Rd., Pudong).
 2. When the sign "X" is placed after the certificate number, it indicates that the sensor is subject to special conditions for safe use specified in the attachment to this certificate.
 3. Type detail & Special requirements for safe are specified in the attachment to this certificate.

Director

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

Issued Date 2007.06.06



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

(GYJ071175X)

(Attachment I)

Attachment I (Translation)

Transmitter, type 1500 series and 2500 series, manufactured by Micro Motion, Inc. or by Emerson Process Management Co., Ltd., have been approved by National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation (NEPSI) in accordance with the following standards:

- GB3836.1-2000 Electrical apparatus for explosive gas atmospheres
Part 1: General requirements
- GB3836.4-2000 Electrical apparatus for explosive gas atmospheres
Part 4: Intrinsic safety "i"

Transmitter are approved with explosion marking of [Ex ib] II B/II C, the certificate number is GYJ071175X.

The permissible range of ambient temperature is -40°C to $+55^{\circ}\text{C}$.

The types to this certificate are as below:

1500 1 3 ABP 2

1 codes: Mounting, includes D or B;

2 codes: Options without influence on explosion protection.

2500 1 3 2 BP 3

1 codes: Mounting, D or B;

2 codes: Output, B or C;

3 codes: Options without influence on explosion protection.

I . SPECIAL CONDITIONS FOR SAFE USE

When multiple type 2500 transmitters are on a single DIN rail and the ambient temperature is above $+45^{\circ}\text{C}$, the units need to be spaced at least 10mm apart.

II . SPECIAL REQUIREMENTS

2.1 The isolated barrier must be located in a non-hazardous area.

2.2 The maximum voltage (U_m) at the terminals for the non-intrinsically safe circuits:

Terminals 11-14: $U_m = 28.8\text{V d.c.}$;

Terminals 21-24, 31-34: $U_m = 30\text{V d.c.}$



2.3 Electrical parameters at terminals (1-4) for the intrinsically safe circuits:

Gas groups	Max.output voltage U_o	Max.output current I_o	Max.output power P_o	Max.external parameters	
				$C_o(\mu F)$	$L_o(\mu H)$
II C	17.22V	484mA	2.05mW	0.333	151
II B				2.04	607

2.4 Users are forbidden to change the configuration to ensure the explosion protection performance of the equipment. Any faults shall be settled with experts from the manufacturer.

2.5 During installation, operation and maintenance, users shall comply with the relevant requirements of the product instruction manual, GB3836.13-1997 "Electrical apparatus for explosive gas atmospheres Part 13: Repair and overhaul for apparatus used in explosive gas atmospheres", GB3836.15-2000 "Electrical apparatus for explosive gas atmospheres Part 15: Electrical installations in hazardous areas (other than mines)", GB3836.16-2006 "Electrical apparatus for explosive gas atmospheres Part 16: Inspection and maintenance of electrical installation (other than mines)" and GB50257-1996 "Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering".

III. MANUFACTURER'S RESPONSIBILITY

3.1 The instruction manual shall include all the clauses mentioned above.

3.2 The manufacturer shall exactly conform to the documents approved by NEPSI.

3.3 The nameplate shall add the following:

3.3.1 Identification of NEPSI.

3.3.2 Certificate No.

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





防爆合格证

证号：GYJ071175X

由 美国高准公司
(地址：Boulder, Co. 80301, USA)

制造的产品：

名 称 变送器

型号规格 1500 系列；2500 系列

防爆标志 [Ex ib] II B/II C

产品标准 —

图样编号 —

经图样及技术文件的审查和样品检验，确认上述产品符合 GB3836.1 - 2000、GB3836.4 - 2000 标准，特颁发此证。有效期自颁发日期起伍年内有效。

备注

1. 本证书同时适用于由艾默生过程控制有限公司(地址：浦东新金桥路 1277 号)组装生产的相同型号质量流量计变送器。
2. 防爆合格证号后缀“X”表示使用时有特殊要求，见本合格证附件。
3. 认可产品型号和产品使用注意事项见本合格证附件。

站长

国家级仪器仪表防爆安全监督检验站

颁发日期



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
Explosion Protection and Safety of Instrumentation

(GYJ071175X)

(Attachment I)

GYJ071175X防爆合格证附件 I

由美国高准公司或艾默生控制有限公司生产的1500□3□BP□和2500□3□BP□变送器，经国家级仪器仪表防爆安全监督检验站(NEPSI)检验，符合GB3836.1-2000“爆炸性气体环境用电气设备 第1部分：通用要求”和GB3836.4-2000“爆炸性气体环境用电气设备 第4部分：本质安全型“i””防爆标准规定的要求，产品防爆标志为[Ex ib] IIB / IIC，防爆合格证号为GYJ071175X。



产品最大使用环境温度范围介于-40℃~+55℃之间。

本证书认可产品的具体型号如下：

1500□1□3ABP□2

□1代码：代表安装方式，包括D和B；

□2代码：代表备选项，不影响防爆性能。

2500□1□3□2BP□3

□1代码：代表安装方式，包括D和B；

□2代码：代表输出方式，包括B和C；

□3代码：代表备选项，不影响防爆性能。

一、产品使用特殊要求

当环境温度高于+45℃时，若多个变送器安装在同一个DIN轨道上，则每个变送器之间必须保持至少10mm以上的距离。

二、产品使用注意事项

1. 该产品必须置于不含爆炸性危险气体的安全场所使用。

2. 该产品非本安端最高电压：

端子11 - 14：Um = 28.8V d.c.；

端子21 - 24和31 - 34：Um = 30V d.c.

3. 该产品本安端(端子1-4)本安参数:

组别	最高输出电压 U _o (V)	最大输出电流 I _o (mA)	最大输出功率 P _o (W)	最大外部允许参数	
				Co(μ F)	Lo(μ H)
II C	17.22	484	2.05	0.333	151
II B				2.04	607

4. 用户不得自行更换该产品的零部件, 应会同产品制造商共同解决运行中出现的故障, 以杜绝损坏现象的发生。

5. 产品的安装、使用和维护应同时遵守产品说明书、GB3836.13 - 1997 “爆炸性气体环境用电气设备 第13部分: 爆炸性气体环境用电气设备的检修”、GB3836.15 - 2000 “爆炸性气体环境用电气设备 第15部分: 危险场所电气安装(煤矿除外)”、GB3836.16 - 2006 “爆炸性气体环境用电气设备 第16部分: 电气装置的检查和维护(煤矿除外)”和GB50257 - 1996 “电气装置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;
3. 产品铭牌中必须补充下列内容:
 - (1) NEPSI认可标志
 - (2) 防爆合格证号

国家级仪器仪表防爆安全监督检验站
二〇〇七年六月六日