



제2022-031460-01-1호(1/2)

# 안전인증서

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMR\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0261X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 '111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 떨어져 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc 혹은 (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ °C} \leq T_a \leq +60\text{ °C}$
- IEC 60079-0 및 IEC 60529에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 별첨의 형식번호에 한하여 유효함.

### 4. 안전한 사용을 위한 조건

- IP66 등급을 유지할 수 있는 케이블 인입장치를 설치할 것.
- 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4쪽 specific condition of use 참조

### 5. 인증(변경)사항

- 1차 변경(2017.11.08.): 기존 제2016-002804-01호에서 관련 IECEx 인증서 갱신 및 모델명 변경 (기존 K7, 변경 후 K9)
- 2차 변경(2021.10.15.): 기존 제2017-055829-01호에서 관련 IECEx 인증서 갱신, 제품정격 추가 및 기재사항 변경.
- 3차 변경(2022.05.25.): 기존 제2021-053692-01호에서 기재사항(모델명) 변경.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2016 년 4 월 18 일

## 한국산업기술시험원장





제2022-031460-01-1호(2/2)

## 인 증 조 건

### [별첨] 인증범위

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-



No. 2022-031460-01-1(1/2)

# 안전인증서

## Certificate of Safety

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMR\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex.tb IIIC T80 °C...T200 °C Db, Ex.tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0261X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '111, Xing Min South Road, Jiangning, Nanjing, Jiangsu Province 211100, China'.

### 2. Description of equipment

- The Magnet Flow Transmitter may be remote mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- Electrical parameters for Intrinsic Safety: See Electrical data on Annex page 8 in the related IECEx Certificate (IECEx DEK 14.0031X issue No.8)
- Ambient Temperature:  $-50\text{ °C} \leq T_a \leq +60\text{ °C}$
- IP66 degree of protection according to IEC 60079-0 and IEC 60529

**3. Scope of certification:** This certificate is valid only for the models in the Annex.

### 4. Special conditions for safe use

- Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
- See Specific Conditions of Use in the related IECEx certificate (IECEx DEK 14.0031X Issue No.8) for the details.

### 5. Details of certificate changes

- 1st Revision(2017.11.08.): This certificate is re-issued to include IECEx certification revision update and modify the model designation(from K7 to K9) from No. 2016-002804-01.
- 2nd revision(2021.10.15.): This certificate is re-issued to include IECEx certification revision update, the change of description, and the addition of the electrical rating from No. 2017-055829-01.
- 3rd revision(2022.05.25.): This certificate is re-issued to include the change of description(model name) from No. 2021-053692-01.

### 6. Details of the others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate (IECEx DEK 14.0031X Issue No.8).

Date of Issue: 2016-04-18

한국산업기술시험원장  
KOREA TESTING LABORATORY





No. 2022-031460-01-1(2/2)

## Conditions of Certification

### [Annex] Scope of certification

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), Max 500 ft	(f): (Blank), SH, Vx	(g): F090x	-





제2022-031461-01-1호(1/2)

# 안전인증서

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMT\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0262X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 '111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 통합 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc 혹은 (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 및 IEC 60529에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 별첨의 형식번호에 한하여 유효함.

### 4. 안전한 사용을 위한 조건

- IP66 등급을 유지할 수 있는 케이블 인입장치를 설치할 것.
- 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4쪽 specific condition of use 참조

### 5. 인증(변경)사항

- 1차 변경(2017.11.08.): 기존 제2016-002805-01호에서 관련 IECEx 인증서 갱신 및 모델명 변경 (기존 K7, 변경 후 K9)
- 2차 변경(2021.10.15.): 기존 제2017-055830-01호에서 관련 IECEx 인증서 갱신, 제품정격 추가 및 기재사항 변경.
- 3차 변경(2022.05.25.): 기존 제2021-053693-01호에서 기재사항(모델명) 변경.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2016 년 4 월 18 일

## 한국산업기술시험원장





제2022-031461-01-1호(2/2)

## 인 증 조 건

### [별첨] 인증범위

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-







No. 2022-031461-01-1(1/2)

# 안전인증서

## Certificate of Safety

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

*The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.*

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMT\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0262X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '111, Xing Min South Road, Jiangning, Nanjing, Jiangsu Province 211100, China'.

### 2. Description of equipment

- The Magnet Flow Transmitter may be integral mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- Electrical parameters for Intrinsic Safety: See Electrical data on Annex page 8 in the related IECEx Certificate (IECEx DEK 14.0031X issue No.8)
- Ambient Temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IP66 degree of protection according to IEC 60079-0 and IEC 60529

**3. Scope of certification:** This certificate is valid only for the models in the Annex.

### 4. Special conditions for safe use

- Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
- See Specific Conditions of Use in the related IECEx certificate (IECEx DEK 14.0031X Issue No.8) for the details.

### 5. Details of certificate changes

- 1st Revision(2017.11.08.): This certificate is re-issued to include IECEx certification revision update and modify the model designation(from K7 to K9) from No. 2016-002805-01.
- 2nd revision(2021.10.15.): This certificate is re-issued to include IECEx certification revision update, the change of description, and the addition of the electrical rating from No. 2017-055830-01.
- 3rd revision(2022.05.25.): This certificate is re-issued to include the change of description(model name) from No. 2021-053693-01.

### 6. Details of the others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate (IECEx DEK 14.0031X Issue No.8).

Date of Issue: 2016-04-18

한국산업기술시험원장  
KOREA TESTING LABORATORY





No. 2022-031461-01-1(2/2)

## Conditions of Certification

### [Annex] Scope of certification

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), Max 500 ft	(f): (Blank), SH, Vx	(g): F090x	-







제2022-031462-01-1호(1/2)

# 안전인증서

**F-R Tecnologias De Flujo, S.A De C.V**

Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMR\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0263X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 'Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 떨어져 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc 혹은 (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 및 IEC 60529에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 별첨의 형식번호에 한하여 유효함.

### 4. 안전한 사용을 위한 조건

- IP66 등급을 유지할 수 있는 케이블 인입장치를 설치할 것.
- 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) 4쪽 specific condition of use 참조

### 5. 인증(변경)사항

- 1차 변경(2017.11.08.): 기존 제2016-002806-01호에서 관련 IECEx 인증서 갱신 및 모델명 변경 (기존 K7, 변경 후 K9)
- 2차 변경(2021.10.15.): 기존 제2017-055831-01호에서 관련 IECEx 인증서 갱신, 제품정격 추가 및 기재사항 변경.
- 3차 변경(2022.05.25.): 기존 제2021-053694-01호에서 기재사항(모델명) 변경.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8)와 함께 사용

2016 년 4 월 18 일

## 한국산업기술시험원장





제2022-031462-01-1호(2/2)

## 인 증 조 건

### [별첨] 인증범위

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-





No. 2022-031462-01-1(1/2)

# 안전인증서

## Certificate of Safety

**F-R Tecnologias De Flujo, S.A De C.V**

Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMR\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0263X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at 'Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico'.

### 2. Description of equipment

- The Magnet Flow Transmitter may be remote mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- Electrical parameters for Intrinsic Safety: See Electrical data on Annex page 8 in the related IECEx Certificate (IECEX DEK 14.0031X issue No.8)
- Ambient Temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IP66 degree of protection according to IEC 60079-0 and IEC 60529

**3. Scope of certification:** This certificate is valid only for the models in the Annex.

### 4. Special conditions for safe use

- Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
- See Specific Conditions of Use in the related IECEx certificate (IECEX DEK 14.0031X Issue No.8) for the details.

### 5. Details of certificate changes

- 1st Revision(2017.11.08.): This certificate is re-issued to include IECEx certification revision update and modify the model designation(from K7 to K9) from No. 2016-002806-01.
- 2nd revision(2021.10.15.): This certificate is re-issued to include IECEx certification revision update, the change of description, and the addition of the electrical rating from No. 2017-055831-01.
- 3rd revision(2022.05.25.): This certificate is re-issued to include the change of description(model name) from No. 2021-053694-01.

### 6. Details of the others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate (IECEX DEK 14.0031X Issue No.8).

Date of Issue: 2016-04-18

한국산업기술시험원  
KOREA TESTING LABORATORY





No. 2022-031462-01-1(2/2)

## Conditions of Certification

### [Annex] Scope of certification

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), Max 500 ft	(f): (Blank), SH, Vx	(g): F090x	-



제2022-031463-01-1호(1/2)

# 안전인증서

**F-R Tecnologias De Flujo, S.A De C.V**

Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMT\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0264X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 'Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 통합 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc 혹은 (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 및 IEC 60529에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 별첨의 형식번호에 한하여 유효함.

### 4. 안전한 사용을 위한 조건

- IP66 등급을 유지할 수 있는 케이블 인입장치를 설치할 것.
- 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4쪽 specific condition of use 참조

### 5. 인증(변경)사항

- 1차 변경(2017.11.08.): 기존 제2016-002807-01호에서 관련 IECEx 인증서 갱신 및 모델명 변경 (기존 K7, 변경 후 K9)
- 2차 변경(2021.10.15.): 기존 제2017-055832-01호에서 관련 IECEx 인증서 갱신, 제품정격 추가 및 기재사항 변경.
- 3차 변경(2022.05.25.): 기존 제2021-053695-01호에서 기재사항(모델명) 변경.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2016 년 4 월 18 일

## 한국산업기술시험원장





제2022-031463-01-1호(2/2)

## 인 증 조 건

### [별첨] 인증범위

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-





No. 2022-031463-01-1(1/2)

# 안전인증서

## Certificate of Safety

**F-R Tecnologias De Flujo, S.A De C.V**

Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMT\*(A, B, M)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb, Ex tb IIIC T80 °C...T200 °C Db, Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 16-KA4BO-0264X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at 'Ave. Miguel de cervantes 111, 31136 Chihuahua, Mexico'.

### 2. Description of equipment

- The Magnet Flow Transmitter may be integral mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- Electrical parameters for Intrinsic Safety: See Electrical data on Annex page 8 in the related IECEx Certificate (IECEx DEK 14.0031X issue No.8)
- Ambient Temperature:  $-50\text{ °C} \leq T_a \leq +60\text{ °C}$
- IP66 degree of protection according to IEC 60079-0 and IEC 60529

**3. Scope of certification:** This certificate is valid only for the models in the Annex.

### 4. Special conditions for safe use

- Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
- See Specific Conditions of Use in the related IECEx certificate (IECEx DEK 14.0031X Issue No.8) for the details.

### 5. Details of certificate changes

- 1st Revision(2017.11.08.): This certificate is re-issued to include IECEx certification revision update and modify the model designation(from K7 to K9) from No. 2016-002807-01.
- 2nd revision(2021.10.15.): This certificate is re-issued to include IECEx certification revision update, the change of description, and the addition of the electrical rating from No. 2017-055832-01.
- 3rd revision(2022.05.25.): This certificate is re-issued to include the change of description(model name) from No. 2021-053695-01.

### 6. Details of the others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate (IECEx DEK 14.0031X Issue No.8).

Date of Issue: 2016-04-18

한국산업기술시험원  
KOREA TESTING LABORATORY





No. 2022-031463-01-1(2/2)

## Conditions of Certification

### [Annex] Scope of certification

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): A, B, M	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), Max 500 ft	(f): (Blank), SH, Vx	(g): F090x	-





제2022-004782-01-1호

# 안전인증서

Emerson Process Management Flow Technologies Co., Ltd.

111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100, China

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMR\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6 Gb) / 20-KA4BO-0155X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 '111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100 China'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 떨어져 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-000705-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004782-01-1

# 안전인증서

## Certificate of Safety

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMR\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6 Gb) / 20-KA4BO-0155X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China'.

### 2. Description of equipment

- The Magnetic Flow Transmitter Model may be remote mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)
- IP66 degree of protection according to IEC 60529 and IEC 60079-0.
- Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$

**3. Scope of certification:** This certificate is valid only for the models as below.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

### 4. Special conditions for safe use

·See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

### 5. Details of certificate change

·1st Revision(2022.5.27.): This certificate is reissued to include the change of description and the assessment in accordance with the latest editions of the standards from the original No.2020-000705-01-1.

### 6. Details of others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY





제2022-004789-01-1호

# 안전인증서

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100, China

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMT\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 20-KA4BO-0156X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 '111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100 China'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브 8705-M와 8711-M에 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ , 온도등급과 최대 표면온도는 설치되는 자기유량 튜브에 따라 결정됨.
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-000706-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장







No. 2022-004789-01-1

# 안전인증서

## Certificate of Safety

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMT\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 20-KA4BO-0156X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China'.

### 2. Description of equipment

·The Magnetic Flow Transmitter Model may be integral mounted on the Magnetic Flow Tube Models 8705-M or 8711-M.

·Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc

·Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)

·IP66 degree of protection according to IEC 60079-0 and IEC 60529.

·Ambient temperature:  $-50\text{ °C} \leq T_a \leq +60\text{ °C}$ , See temperature class and maximum surface temperature of Flow Tubes on which the transmitter is mount.

**3. Scope of certification:** This certificate is valid only for the models as below.

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

### 4. Special conditions for safe use

·See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

### 5. Details of certificate change

·1st Revision(2022.05.27.): This certificate is reissued to include the change of type of protection, description and the assessment in accordance with the latest editions of the standards from the original No.2020-000706-01-1.

### 6. Details of others

·Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.

·This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY







제2022-004783-01-1호

# 안전인증서

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMR\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6 Gb) / 20-KA4BO-0157X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 떨어져 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx×10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.5.27.): 기존 제2020-000707-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004783-01-1

# 안전인증서

## Certificate of Safety

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMR\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6 Gb) / 20-KA4BO-0157X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'.

#### 2. Description of equipment

- The Magnetic Flow Transmitter Model may be remote mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)
- IP66 degree of protection according to IEC 60529 and IEC 60079-0.
- Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$

**3. Scope of certification:** This certificate is valid only for the models as below.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

#### 4. Special conditions for safe use

·See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

#### 5. Details of certificate change

·1st Revision(2022.05.27.): This certificate is reissued to include the change of description and the assessment in accordance with the latest editions of the standards from the original No.2020-000707-01-1.

#### 6. Details of others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY





제2022-004784-01-1호

# 안전인증서

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMT\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 20-KA4BO-0158X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브 8705-M와 8711-M에 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ °C} \leq T_a \leq +60\text{ °C}$ , 온도등급와 최대 표면온도는 설치되는 자기유량 튜브에 따라 결정됨.
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-000708-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004784-01-1

# 안전인증서

## Certificate of Safety

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMT\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C...T200 °C Db) / 20-KA4BO-0158X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

1. **Manufacturing location(s):** This certificate is valid only for the specified products produced at 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'.

2. **Description of equipment**

- The Magnetic Flow Transmitter Model may be integral mounted on the Magnetic Flow Tube Models 8705-M or 8711-M.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)
- IP66 degree of protection according to IEC 60079-0 and IEC 60529.
- Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ , See temperature class and maximum surface temperature of Flow Tubes on which the transmitter is mount.

3. **Scope of certification:** This certificate is valid only for the models as below.

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

4. **Special conditions for safe use**

·See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

5. **Details of certificate change**

·1st Revision(2022.05.27.): This certificate is reissued to include the change of type of protection, description and the assessment in accordance with the latest editions of the standards from the original No.2020-000708-01-1.

6. **Details of others**

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY







제2022-004788-01-1호

# 안전인증서

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMT\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb) / 20-KA4BO-0159X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브 8705-M와 8711-M에 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ , 온도등급과 최대 표면온도는 설치되는 자기유량 튜브에 따라 결정됨.
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-007060-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEX DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004788-01-1

# 안전인증서

## Certificate of Safety

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMT\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb) / 20-KA4BO-0159X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

- Manufacturing location(s):** This certificate is valid only for the specified products produced at 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'.
- Description of equipment**
  - The Magnetic Flow Transmitter Model may be integral mounted on the Magnetic Flow Tube Models 8705-M or 8711-M.
  - Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
  - Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)
  - IP66 degree of protection according to IEC 60079-0 and IEC 60529.
  - Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ , See temperature class and maximum surface temperature of Flow Tubes on which the transmitter is mount.
- Scope of certification:** This certificate is valid only for the models as below.
  - 8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

### 4. Special conditions for safe use

See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

### 5. Details of certificate change

1st Revision(2022.05.27.): This certificate is reissued to include the change of description and the assessment in accordance with the latest editions of the standards from the original No.2020-007060-01-1.

### 6. Details of others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY







제2022-004786-01-1호

# 안전인증서

F-R Technologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMR\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C Db) / 20-KA4BO-0160X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 떨어져 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-007062-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004786-01-1

# 안전인증서

## Certificate of Safety

F-R Tecnologias De Flujo, S.A. De C.V.

Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMR\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C Db) / 20-KA4BO-0160X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

1. **Manufacturing location(s):** This certificate is valid only for the specified products produced at 'Rosemount Flow Division Operations Ave. Miguel de Cervantes 111, 31136 Chihuahua, Mexico'.

#### 2. Description of equipment

- The Magnetic Flow Transmitter Model may be remote mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)
- IP66 degree of protection according to IEC 60079-0 and IEC 60529.
- Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$

3. **Scope of certification:** This certificate is valid only for the models as below.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

#### 4. Special conditions for safe use

·See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

#### 5. Details of certificate change

·1st Revision(2022.05.27.): This certificate is reissued to include the change of description and the assessment in accordance with the latest editions of the standards from the original No.2020-007062-01-1.

#### 6. Details of others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY





제2022-004787-01-1호

# 안전인증서

Emerson Process Management Flow Technologies Co., Ltd.

111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100, China

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMT\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb) / 20-KA4BO-0161X

## 인증기준

고용노동부고시 제2021-22호

## 인증조건

### 1. 제조공장

·본 인증서는 '111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100, China'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브 8705-M와 8711-M에 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ , 온도등급과 최대 표면온도는 설치되는 자기유량 튜브에 따라 결정됨.
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-007063-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004787-01-1

# 안전인증서

## Certificate of Safety

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMT\*(F,P)\*K9\*\*\*\*(Ex db eb [ia Ga] IIC T6...T3 Gb) / 20-KA4BO-0161X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China'.

**2. Description of equipment**

The Magnetic Flow Transmitter Model may be integral mounted on the Magnetic Flow Tube Models 8705-M or 8711-M.

Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc

Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEx DEK 14.0031X Issue No.8)

IP66 degree of protection according to IEC 60079-0 and IEC 60529.

Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ , See temperature class and maximum surface temperature of Flow Tubes on which the transmitter is mount.

**3. Scope of certification:** This certificate is valid only for the models as below.

8732EMT(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx x 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

**4. Special conditions for safe use**

See Specific Conditions of Use in the related IECEx certificate(IECEx DEK 14.0031X issue No.8)

**5. Details of certificate change**

1st Revision(2022.05.27): This certificate is reissued to include the change of description and the assessment in accordance with the latest editions of the standards from the original No.2020-007063-01-1.

**6. Details of others**

Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.

This certificate shall be used with the related IECEx certificate(IECEx DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY







제2022-004785-01-1호

# 안전인증서

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100, China

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제84조 및 같은 법 시행규칙 제110조제1항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인증표시의 사용을 인증합니다.

## 품 목

Magnet Flow Transmitter

## 형식·모델(용량·등급) / 인증번호

8732EMR\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C Db) / 20-KA4BO-0169X

## 인 증 기 준

고용노동부고시 제2021-22호

## 인 증 조 건

### 1. 제조공장

·본 인증서는 '111, Xing Min South Road Jiangning District, Nanjing Jiangsu Province, 211100 China'에서 생산하는 제품에 한함.

### 2. 제품개요

- 자기 유량 튜브와 떨어져 설치되는 자기 유량계 트랜스미터임.
- 정격: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc or (12 ~ 30) Vdc
- 본질안전을 위한 전기적 파라미터: 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) Annex 8쪽 Electrical data 참조
- 사용주위온도:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
- IEC 60079-0 와 IEC 60529 에 따른 보호등급 IP66 을 만족함.

### 3. 인증범위: 본 인증서는 아래의 형식번호에 한하여 유효함.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx×10 ft), 최대 500 ft	(f): 해당없음, SH, Vx	(g): F090x	-

### 4. 안전한 사용을 위한 조건

·관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8) 4페이지 Specific Conditions of Use 참조

### 5. 인증(변경)사항

·1차 변경(2022.05.27.): 기존 제2020-007064-01-1호에서 기재사항 변경 및 신규격평가 반영으로 인하여 재발행함.

### 6. 그 밖의 사항

- 안전인증품의 품질관리, 확인심사 수검, 변경사항 신고 등 인증 받은 자의 의무 준수
- 본 안전인증서는 반드시 관련 IECEx 인증서(IECEx DEK 14.0031X issue No.8)와 함께 사용

2020년 2월 21일

## 한국산업기술시험원장





No. 2022-004785-01-1

# 안전인증서

## Certificate of Safety

**Emerson Process Management Flow Technologies Co., Ltd.**

111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 84 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 1 of Article 110 of ENFORCEMENT ORDINANCE OF the same ACT.

### Electrical Equipment

Magnet Flow Transmitter

### Model (Marking) / Certificate No.

8732EMR\*(F,P)\*K9\*\*\*\*(Ex tb [ia Da] IIIC T80 °C Db) / 20-KA4BO-0169X

### Applied standards

Announcement No. 2021-22 of Ministry of Employment and Labor

### Conditions of Certification

**1. Manufacturing location(s):** This certificate is valid only for the specified products produced at '111, Xing Min South Road, Jiangning District, Nanjing, Jiangsu Province, 211100, China'.

### 2. Description of equipment

- The Magnetic Flow Transmitter Model may be remote mounted from the Magnetic Flow Tube.
- Rating: (90 ~ 250) Vac, (50/60) Hz, (12 ~ 42) Vdc, (12 ~ 30) Vdc
- Electrical Parameters for Intrinsic Safety: See Electrical data on Annex page 8 in related IECEx certificate(IECEX DEK 14.0031X Issue No.8)
- IP66 degree of protection according to IEC 60079-0 and IEC 60529.
- Ambient temperature:  $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$

**3. Scope of certification:** This certificate is valid only for the models as below.

·8732EMR(a)(b)(c)K9(d)(e)(f)(g)

(a): 1, 2, 3	(b): F, P	(c): 1, 2, 4, 5	(d): M4, M5
(e): RTxx, RHxx(xx × 10 ft), Max. 500 ft	(f): (None), SH, Vx	(g): F090x	-

### 4. Special conditions for safe use

·See Specific Conditions of Use in the related IECEx certificate(IECEX DEK 14.0031X issue No.8)

### 5. Details of certificate change

·1st Revision(2022.05.27.): This certificate is reissued to include the description and the assessment in accordance with the latest editions of the standards from the original No.2020-007064-01-1.

### 6. Details of others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate(IECEX DEK 14.0031X issue No.8).

Date of Issue: 2020-02-21

한국산업기술시험원장  
KOREA TESTING LABORATORY

