

CERTIFICATE OF CONFORMITY

1. FIRE PROTECTION EQUIPMENT

2. Certificate No: FM23FPUS0258

3. Equipment:
(Type Reference and Name) Models MPA 4112 V1.1 115V, MPA 4112 V1.1,
MPA4112 (PF) V2.0 115V, MPA4112 (PF) V2.0

4. Name of Listing Company: Karl DUNGS Inc

5. Address of Listing Company: 3890 Pheasant Ridge Dr NE,
Suite 150 Blaine, Minnesota 55449, USA

6. The examination and test results are recorded in confidential report number:

3040027 dated 9th September 2010

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

FM 7610:2021

8. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

9. Approval Guide Listing Category:

Lighted Burners, Automatic

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

17 December 2023

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 320 (Jan 23)



CERTIFICATE OF CONFORMITY

US Certificate of Conformity No: FM23FPUS0258



10. Description of Equipment:

Type code extension PF indicates pulse firing functionality. Additional extension modules are EM 2/4, EM 2/5, EM 2/6, EM 2/8, and EM 2/9. Model MPA 4112 V2.0 also with extension module EM 2/4, EM 2/5 or EM 2/6 indicates IP54 rating, model MPA 4112 V2.0 with extension module EM 2/8 or EM 2/9 indicates IP40 rating. Used in conjunction with the UV 41, UV 41 HE and UV42 flame scanners or flame rods. Control units have 115V suffix that indicates operating voltage 115 Vac no suffix indicates 230 Vac. Operating temperature range -40°C to +70°C. UV41, UV41HE and UV42 flame scanners are rated IP54. The UV 4x EM 1/1 shutter module is an optional module that can be used with the UV 41 (HE) and UV42 flame scanner to provide continuous operation.

11. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

12. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

13. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
17 December 2023	Original Issue. reference RR237368

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CERTIFICATE OF CONFORMITY

1. FIRE PROTECTION EQUIPMENT

2. Certificate No: FM23FPUS0259

3. Equipment:
(Type Reference and Name) Models MPA 4114 (PF) V2.0 115V, MPA 4114 (PF) V2.0

4. Name of Listing Company: Karl DUNGS Inc

5. Address of Listing Company: 3890 Pheasant Ridge Dr NE,
Suite 150 Blaine, Minnesota 55449, USA

6. The examination and test results are recorded in confidential report number:

3040027 dated 9th September 2010

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

FM 7610:2021

8. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

9. Approval Guide Listing Category:

Lighted Burners, Automatic

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

7 December 2023

Date

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F 320 (Jan 23)



CERTIFICATE OF CONFORMITY

US Certificate of Conformity No: FM23FPUS0259



10. Description of Equipment:

Type code extension PF indicates pulse firing functionality. Additional extension modules are EM 2/4, EM 2/5, EM 2/6, EM 2/8, and EM 2/9. Annunciation module AM 41 can be used as an optional remote display. Model MPA 4114 V2.0 also with extension module EM 2/4, EM 2/5 or EM 2/6 indicates IP54 rating, model MPA 4114 V2.0 with extension module EM 2/8 or EM 2/9 indicates IP40 rating. Used in conjunction with the UV 41, UV 41 HE and UV42 flame scanners or flame rods. Control units have 115V suffix that indicates operating voltage 115 Vac no suffix indicates 230 Vac. Operating temperature range -40°C to +70°C. UV41, UV41HE and UV42 flame scanners are rated IP54. The UV 4x EM 1/1 shutter module is an optional module that can be used with the UV 41 (HE) and UV42 flame scanner to provide continuous operation.

11. Test and Assessment Procedure and Conditions:

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12. Schedule Drawings

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CERTIFICATE OF CONFORMITY

1. FIRE PROTECTION EQUIPMENT

2. Certificate No: FM23FPUS0260

3. Equipment:
(Type Reference and Name) Model MPA4122 V1.1, Model MPA 4122 (PF) V2.0
115V and MPA 4122 (PF) V2.0

4. Name of Listing Company: Karl DUNGS Inc

5. Address of Listing Company: 3890 Pheasant Ridge Dr NE,
Suite 150 Blaine, Minnesota 55449, USA

6. The examination and test results are recorded in confidential report number:

3040027 dated 9th September 2010

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

FM 7610:2021

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9. Approval Guide Listing Category:

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Certificate issued by:



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CERTIFICATE OF CONFORMITY

US Certificate of Conformity No: FM23FPUS0260



10. Description of Equipment:

Model MPA4122 V1.1

Model MPA4122 Control units have 115V suffix that indicates operating voltage 115Vac, no suffix indicates 230Vac. Operating temperature range -40°C to +70°C. The UV 4x EM 1/1 shutter module is an optional module that can be used with the UV41, UV41HE and UV42 flame guard systems to provide continuous operation.

Model MPA 4122 (PF) V2.0 115V and MPA 4122 (PF) V2.0

Type code extension PF indicates pulse firing functionality. Additional extension modules are EM 2/4, EM 2/5, EM 2/6 and EM 2/8. Model MPA 4122 has an IP65 rating using a metal enclosure. Used in conjunction with the UV 41, UV 41 HE and UV42 flame scanners or flame rods. Control units have 115V suffix that indicates operating voltage 115 Vac no suffix indicates 230 Vac. Operating temperature range -40°C to +70°C. UV41, UV41HE and UV42 flame scanners are rated IP54. The UV 4x EM 1/1 shutter module is an optional module that can be used with the UV 41 (HE) and UV42 flame scanner to provide continuous operation.

11. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

12. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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