



CERTIFICATE

valid until: 2034-09-01

Type examination (Module B) - production type

Certificate No.: C-IS-TAF-MUC-25-03-2652066-18082844

Name and address of manufacturer: Karl Dungs GmbH & Co. KG
73660 Urbach
GERMANY

We herewith certify that the production type mentioned below meets the requirements of the Pressure Equipment (Safety) Regulations 2016 as amended.

Certification based on report No.: see page 3

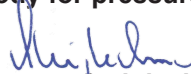
Scope of certification: Automatic burner control system
as safety accessory.
Type MPA41xx
(Details and basis of test on page 3)

Manufacturing plant: RAWE Electronic GmbH
88171 Weiler-Simmenberg
GERMANY

2025-03-17
(Date of issue)

Verification of Certificate by TÜV SÜD App Verify

TUV SUD BABT Unlimited
Approved Body for pressure equipment


Johannes Steiglechner
Name of certifier

Approved Body 0168
TUV SUD BABT Unlimited
Octagon House, Concorde Way
Fareham, Hampshire, PO15 5RL
United Kingdom

Document ID: 2652066Ya6554

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Details of manufacturer:

Karl Dungs GmbH & Co. KG, 73660 Urbach,



Notes on the certificate

The right to use the symbol depicted in the certificate only applies to the product named in the certificate.

All necessary operating and safety instructions according to Schedule 2, Paragraph 21 and 22. have to be supplied with each product. For transportation purposes, the approved body may allow the holder of the certificate to disassemble the products marked with the symbol in such a way as is usual for product assembly in an installation.

The holder of the certificate is obliged to monitor the fabrication of the products marked with the symbol in order to ensure that production is carried out in accordance with the examination specifications. The holder of the certificate is particularly obliged to carry out monitoring examinations which are laid down in the examination specifications or required by the certification body.

If this certificate expires or is declared invalid it has to be returned to the certification body immediately.

A certificate can be declared invalid or withdrawn by the approved body, if any flaws appear after the examination which were not detectable or not found during the examination, or if the symbol is used for the purpose of misleading or in any other way illicit advertising, or due to facts which were not clearly detectable at the time of certification, further use of the symbol is not justifiable.

The holder of the certificate is obliged to report any damage to or incurred by certified products to the approved body.

The holder of the certificate is only allowed to pass on examination reports and certificates by using the full text and by stating the date of issue. Publication of excerpts or duplication of the documents requires prior consent by the certification body.

With the certificate holder's consent, the certification body reserves the right to publish a list of certified products for the purpose of consumer information.



Page 3 of certificate No. C-IS-TAF-MUC-25-03-2652066-18082844

Replaces certificate no. C-IS-TAF-MUC-24-09-2652066-04075351 dated 2024-09-02

Test reports / Prüfberichte:

P-IS-TAF-MUC-C-F 1725-01/24 dated 2024-08-30

P-IS-TAF-MUC-C-F 1725-03/25 dated 2025-03-17

Basis of examination:

Pressure Equipment Safety Regulations, UKSI 2016:1105 (as amended by UKSI 2019:696)

DIN EN 298:2024-03, DIN EN 13611:2022-01, DIN EN 50156-2:2016-03

Models

MPA4112 V2.0
MPA4114 V2.0
MPA4122 V2.0
MPA4112 V2.0 PF
MPA4114 V2.0 PF
MPA4122 V2.0 PF

Models MPA4112 V2.0, MPA4114 V2.0 and MPA4122 V2.0 are suitable for flame detection and control of gas burners with permanent operation or with non-permanent operation.

Models MPA4112 V2.0 PF, MPA4114 V2.0 PF and MPA4122 V2.0 PF are suitable for flame detection and control of gas burners in pulse firing systems and of gas burners with flameless operation above 750°C for non-permanent operation.

The following flame sensors / flame detector devices can be used:

<i>Operation mode</i>	<i>Manufacturer</i>	<i>Flame sensors / Flame detector devices + Extension modules</i>	<i>Sensed flame</i>
<u>Permanent operation</u> (models MPA41xx V2.0)	Dungs	FLW 41I + EM2/x	Ionisation current
	usual in trade	Ionisation probe	Ionisation current
	Dungs	UV41, UV41HE, UV42 + EM2/x + UV4x-EM1/1	UV (185–260 nm)
Non-permanent operation (models MPA41xx V2.0 and MPA41xx V2.0 PF)	Dungs	FLW 41I	Ionisation current
	usual in trade	Ionisation probe	Ionisation current
	Dungs	UV41, UV41HE, UV42	UV (185–260 nm)
	BST	KLC10.., KLC1000.. FLW20UV..	UV (185–260 nm)
	BST	KLC2002.. / FLW10IR..	IR+VIS flicker (380–1150 nm)
	BST	KLC20/230	IR+VIS flicker (350–1150 nm)

The automatic burner control system can be used with the following extension modules:

MPA-EM2/4, MPA-EM2/5, MPA-EM2/6, MPA-EM2/8 and MPA-EM2/9.



Annex 1
to page 3 of certificate No. C-IS-TAF-MUC-25-03-2652066-18082844

Depending on the hardware configuration, the automatic burner control system is also capable to conform to the requirements of DIN EN 61508:2011-02, parts 1–3, for safety functions with safety integrity levels SIL 2 resp. SIL 3.

The conditions mentioned in annex E of test report no. P-IS-TAF-MUC-C-F 1725-01/24 shall be considered. In particular the following shall be observed:

If necessary, possible hazards resulting from external fire or from traffic, wind and earthquake loading shall be examined separately depending on the installation situation of the pressure equipment.