

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **36 753 - 11 HH**

Company **LAMTEC Mess-und Regeltechnik
für Feuerungen GmbH & Co. KG
Wiesenstr. 6 (Gewerbegebiet Impex)
69190 Walldorf, GERMANY**

Product Description **Burner controller with fuel air ratio control system and leakage system
Combustion Management system**

Type **ETAMATIC, ETAMATIC S, ETAMATIC OEM, ETAMATIC OEM/S, FA1, FMS**

Environmental Category **C, EMC2**

Technical Data /
Range of Application **Suitable for control of burners and combustion systems for fluid, gaseous, liquid or
solid fuels in hot air generators, steam boilers, industrial combustions and similar
applications.**

Power Supply: **115V/230V**
Degree of Protection: **IP 40, with sealing IP54 to front**
Operation Mode: **Permanent Operation**

Software Version: **5.x00**

Article Number: **663R1..., 66301..., 670R0..., 664F00..., 665F00...**

Test Standard **Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003
Regulations for the Use of Computers and Computer Systems**

Documents **CF11830408_E520(E), CF11850511_SIL_BST, CF11830511_SIL_BST, BV112969,
BV112969a, BV113240, No. 192/11, Env. test report Lamtec dated 26.05.201,
EMVP971, N°5128-90160, CE-0085 AU 0207, Report P062233, 1213-11-EE-
PB001/002/003/003**

Remarks **see additional standards**

Valid until **2017-05-01**

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Type Approval Symbol



File No. **I.A.03**

Hamburg, 2012-05-02

Germanischer Lloyd

i.v. Papanuskas
Dr. Joannis Papanuskas

Didier Girardin
Didier Girardin

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

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FMS, ETAMATIC S, Etamatic OEM, Etamatic/S OEM additional test standards:

EC Type-examination according directive 97/23/EC according TÜV SÜD approvals:

Certificates: BAF-MUC 04 02 17360843 001 (FMS),
BAF-MUC 04 02 17360843 003 (ETAMATIC, Etamatic S, Etamatic OEM, Etamatic/S OEM):
DIN EN 230:2005, DIN EN 298:2004, DIN EN 60730-2-5:2003, DIN EN 1643:2003,
DIN EN 50156-1:2005, 10.5, EN 676:2003-11, EN 267:1999-11 (as far as relevant),
DIN EN 12067-2, Article 3 paragraph 1.4 of 97/23/EC of 29.05.1997; Article 3 of 2009/142/EC
of 30.11.2009, DIN EN 746-2:1997-05

EC Gas Appliances Directive (2009/142/EC) test basis DIN EN 298 according DVGW Cert GMBH approvals:
EC Type examination certificate CE-0085AU0207, CE-0085AS0254

SIL 3 and PI e regarding CF 11830511 resp. CF 11850511 fulfills the applicable technical requirements of DIN EN 61508-2, -3

Mode of operation: hight demand mode

DIN EN 61511-1 (suitable to be used as single device for SIF)

DIN EN ISO 13849-1 (suitable to be used as single device for SRCF)

FA1 additional test standards:

EC Type-examination according directive 97/23/EC according TÜV SÜD approvals:

Certificate: Z-IS-TAF-MUC-08-02-17360843-005-Rev.01(FA1):
DIN EN 298:2004, DIN EN 1643:2001, DIN EN 230:2005, DIN EN 60730-2-5:2003;
DIN EN 50156-1:2005, 10.5. (Annex I)

Reports: C-F 1317-00/06 v. 2006-04-26, C-F 1185-04/08 v. 2008-02-28
C-F 1317-01/11 v. 2011-01-31, C-F 1317-02/11 v. 2011-06-06

FA1 burner control system is suitable to be used for safety shut-down of the entire fuel supply of burners or combustion systems for permanent operation up to safety integrity level SIL3 according DIN EN 50156-1, clause 10.5.5.

General: Requirements for installaion and commissioning according listed certificated shall be considered.

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