



Number	18GR0996/01	Replaces	18GR0996/00
Issue date	11-11-2019	Contract number	E 3100
Due date	11-11-2029	Module	B (Type testing)
Report number	170101466	Scope	(EU) 2016/426 (9 March 2016)
PIN	0063CT1466		

EU TYPE EXAMINATION CERTIFICATE (GAR)

Kiwa hereby declares that the automatic burner control systems, type(s):

EC78xx/RM78xx (SW Rev. 5000+) - series

Manufacturer **Honeywell Thermal Solutions
Golden Valley, USA**

meet(s) the essential requirements as described in the
Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.

Reference standard: EN 298:2012

This certificate is only valid in combination with the appendix to this certificate, where specific information and/or conditions are given.

Ronald Karel, Kiwa



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Manufacturer:

Honeywell Thermal Solutions

Types:

EC7820A1026	EC7820A2026	EC7830A1033	EC7830A1058	EC7830A1066	EC7830A2033
EC7830A2066	EC7850A1072	EC7850A1080	EC7850A1098	EC7850A1122	EC7850A2072
EC7850A2080	EC7850A2122	EC7890B1028	EC7890B2028		

All types SW Rev. 5000+

Scope:

Application:	Appliances burning gaseous/liquid fuels and permanent/non-permanent operation
Flame detection:	Ionization / UV
Applied technology:	Complex electronics
Ambient temperature:	-40 °C to +60 °C (depending on display)
Electrical supply:	230 Vac 50/60 Hz
Protection:	With enclosure and IP 20
Installation environment	Pollution degree 1 and 2
Gas valve output:	230 Vac / max. 4 A / $\cos \varphi=0.5$

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Overheat cut-out by auto reset electromechanical cut-out *):	EN 298	Class C

*) Approval of the electromechanical cut-out is not included.

Remarks/special conditions:

Some controls have longer Flame Failure Response Time (FFRT) than 1 second, this is covered in EN746-2:2010.

Remote reset option is wired therefore EN14459 is not applicable.



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Series: RM78xx

Types:

RM7830A1003	RM7830A1029	RM7830A2003	RM7830A2029	RM7838C1020	RM7838C2020
RM7850A1001	RM7850A1019	RM7850A1027	RM7850A2001	RM7850A2019	RM7850A2027
RM7890B1055	RM7890A1064	RM7890B2055	RM7890B2064		

All types SW Rev. 5000+

Scope:

Application:	Appliances burning gaseous and liquid fuels and permanent/non-permanent operation
Flame detection:	Ionization / UV
Applied technology:	Complex electronics
Ambient temperature:	-40 °C to +60 °C (depending on display)
Electrical supply:	120 Vac 50/60 Hz
Protection:	With enclosure and IP 20
Installation environment	Pollution degree 1 and 2
Gas valve output:	120 Vac / max. 4 A / $\cos \varphi=0.5$

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Overheat cut-out by auto reset electromechanical cut-out *):	EN 298	Class C

*) Approval of the electromechanical cut-out is not included.

Remarks/special conditions:

Some controls have longer Flame Failure Response Time (FFRT) than 1 second, this is covered in EN746-2:2010.

Remote reset option is wired therefore EN14459 is not applicable.



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

EQUIPMENT TO BE USED WITH EC78xx/RM78xx

Flame Amplifiers*1

R7847A1025	FFRT: 1.0 second	Intermittent use with ionization flame sensor
R7847A1033	FFRT: 2.0 seconds	Intermittent use with ionization flame sensor
R7847A1041	FFRT: 2.0 seconds	Intermittent use with ionization flame sensor or with C7012A/C/G (UV)
R7847A1074	FFRT: 1.0 second	Intermittent use with ionization flame sensor or with C7012A/C/G (UV)
R7847A1082	FFRT: 2.0 seconds	Intermittent use with ionization flame sensor or with C7012A/C/G (UV)
R7847B1023	FFRT: 1.0 Second	Permanent use with ionization flame sensor
R7847B1031	FFRT: 2.0 Seconds	Permanent use with ionization flame sensor
R7847B1064	FFRT: 1.0 Second	Permanent use with ionization flame sensor
R7847B1072	FFRT: 2.0 Seconds	Permanent use with ionization flame sensor
R7849A1015	FFRT: 1.0 second	Intermittent use with C7027A, C7035A, C7044A (UV Powertube)
R7849A1023	FFRT: 2.0 seconds	Intermittent use with C7027A, C7035A, C7044A (UV Powertube)
R7849A1031	FFRT: 2.0 seconds	Intermittent use with C7027A, C7035A, C7044A (UV Powertube)
R7849A1064	FFRT: 2.0 seconds	Intermittent use with C7027A, C7035A, C7044A (UV Powertube)
R7849A1080	FFRT: 2.0 seconds	Intermittent use with C7027A, C7035A, C7044A (UV Powertube)
R7849A1098	FFRT: 2.0 seconds	Intermittent use with C7027A, C7035A, C7044A (UV Powertube)
R7851A1002	FFRT: 1.0 second	Intermittent use with C7927
R7851A1010	FFRT: 2.0 seconds	Intermittent use with C7927
R7851C1008	FFRT: 2.0 seconds	Permanent use with C7961
R7861A1026	FFRT: 2.0 seconds	Permanent use with C7061A/F (UV Shuttercheck).
R7861A1034	FFRT: 1.0 second	Permanent use with C7061A/F (UV Shuttercheck).
R7886A1001	FFRT: 2.0 seconds	Permanent use with C7076A/D/F (UV Shuttercheck).

*1: The mentioned Flame Failure Response Times (FFRT) are the timings of the flame amplifiers. The total flame failure response time of the complete burner control will be longer.

Displays and data communication accessories

S7800A1xxx	VFD display with 2 lines of text, -40°..+60°. Xxx refers to various languages
S7800A2xxx	LCD display with 4 lines of text, -18°..+60°. Xxx refers to various languages
S7810A1009	Data communication module (DDL)
S7810M1029	Data communication module (Modbus, w/o remote reset)

Remote reset accessories (wired):

S7820A1007



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Flame detectors (ionization flame sensors): Use with Flame Amplifier R7847A/B:

C7008Axxxx	Flame rod assembly. Xxxx refers to various electrode lengths.
C7009Axxxx	Flame rod assembly with protective enclosure. Xxxx refers to various electrode lengths.

Flame detectors (UV DAG tube sensors): Use with Flame Amplifier R7847A:

C7012Axxxx	UV flame sensor in standard enclosure. Xxxx refers to various voltage, pipe mount diameter and cable lengths.
C7012Cxxxx	UV flame sensor in special enclosure. Xxxx refers to various voltage, pipe mount diameter and cable lengths.
C7012Gxxxx	UV flame sensor in standard enclosure. Xxxx refers to various voltage, pipe mount diameter and cable lengths with additional earth wire.

Flame detectors (UV Powertube sensors): Use with Flame Amplifier R7849A:

C7027Axxxx	UV powertube fixed flame sensor, ½"pipe mounting. Xxxx refers to various wire lengths and different temperature specifications.
C7035Axxxx	UV powertube replaceable flame sensor, 1"pipe mounting. Xxxx refers to various wire lengths and different temperature specifications.
C7044Axxxx	UV powertube fixed flame sensor, ½"pipe mounting. Xxxx refers to various wire lengths, different temperature specifications and side view possibility.

Flame detectors (UV sensors): Use with Flame Amplifier R7851A:

C7927Axxxx	Solid State UV flame sensor. Xxxx refers to various wire lengths and different temperature specifications.
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Flame detectors (UV sensors): Use with Flame Amplifier R7851C:

C7961E/Fxxxx	Sold State UV flame sensor. Xxxx refers to various wire lengths and different temperature specifications.
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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Flame detectors (UV Copper Cathode Tube sensors): Use with Flame Amplifier R7886:

C7076Axxxx	UV flame sensor in standard enclosure with shutter check and adjustable sensitivity. Xxxx refers to various voltages.
C7076Dxxxx	UV flame sensor in special enclosure with shutter check and adjustable sensitivity. Xxxx refers to various voltages.
C7076Fxxxx	UV flame sensor in explosion proof (ATEX) enclosure with shutter check and adjustable sensitivity. Xxxx refers to various voltages.

Flame detectors (UV Powertube Shuttercheck sensors): Use with Flame Amplifier R7861:

C7061Axxxx	UV flame sensor in standard enclosure with shutter check. Xxxx refers to various pipe mount diameters and cable lengths.
C7061Fxxxx	UV flame sensor in explosion proof (ATEX) enclosure with shutter check. Xxxx refers to various pipe mount diameters and cable lengths.

Purge cards:

ST7800A1005	PURGE TIMING: 2 SECONDS
ST7800A1013	PURGE TIMING: 7 SECONDS
ST7800A1021	PURGE TIMING: 10 SECONDS
ST7800A1039	PURGE TIMING: 30 SECONDS
ST7800A1047	PURGE TIMING: 40 SECONDS
ST7800A1054	PURGE TIMING: 60 SECONDS
ST7800A1062	PURGE TIMING: 90 SECONDS
ST7800A1070	PURGE TIMING: 2.5 MINUTES
ST7800A1088	PURGE TIMING: 4 MINUTES
ST7800A1096	PURGE TIMING: 6 MINUTES
ST7800A1104	PURGE TIMING: 9 MINUTES
ST7800A1112	PURGE TIMING: 12 MINUTES
ST7800A1120	PURGE TIMING: 15 MINUTES
ST7800A1138	PURGE TIMING: 22 MINUTES
ST7800A1146	PURGE TIMING: 30 MINUTES

Sub base:

Q7800A/Bxxxx	Wiring and mounting sub base. Xxxx refers to various form factors.
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HONEYWELL THERMAL SOLUTIONS

Honeywell Products & Solutions Sàrl
Z.A. La Pièce
CH-1180 Rolle
Switzerland
thermalsolutions.honeywell.com



EU - Declaration of Conformity

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Branding



Honeywell Thermal Solutions
1985 Douglas Drive
Golden Valley, MN 55422
U.S.A.

Product

Burner Control Relay Module EC78xx / RM78xx Series
with rectification or UV flame sensor
with or without display module S7800
with or without reset module S7820
with or without data communication module S7810

Type & Models

RM7830A1003, RM7830A2003, RM7830A1029, RM7830A2029,
RM7838C1020, RM7838C2020, RM7850A1001, RM7850A2001,
RM7850A1019, RM7850A2019, RM7850A1027, RM7850A2027,
RM7890B1055, RM7890B2055, RM7890A1064, RM7890B2064,
EC7820A1026, EC7820A2026, EC7820A1034, EC7820A2034,
EC7830A1033, EC7830A2033, EC7830A1058, EC7830A1066,
EC7830A2066, EC7850A1072, EC7850A2072, EC7850A1080,
EC7850A2080, EC7850A1098, EC7850A1122, EC7850A2122,
EC7890B1028, EC7890B2028

Product-ID-Number

CE-0063CT1466

EU Acts

2016/426/EU	GAR	
2014/35/EU	LVD	
2014/30/EU	EMC	Immunity

Emission conformity can only be verified
in combination with the appliance

Standards

EN 298:2012	Automatic burner controls
EN 61508:2010	Functional safety - SIL 3 Capable
EN 60335-2-102	Household and similar electrical appliances
EN 746-2	Industrial thermoprocessing - fuel handling systems

Conformity Assessment Procedure

2016/426/EU Annex III, paragraph 1
KIWA Nederland B.V.
Notified Body 0063

Surveillance Procedure

2016/426/EU Annex III, paragraph 3
KIWA Nederland B.V.
Notified Body 0063

Intended Use

EC7820 (all models):	32-00197
EC7830A1058 & EC7850A1098:	65-0174 (Rev.B and above)
EC/RM7830/50 (all other models):	32-00198
RM7838Cx020:	32-00199
EC7890Bx028/RM7890Bx055:	32-00157 (Rev.B and above)



HONEYWELL THERMAL SOLUTIONS

Honeywell Products & Solutions Sàrl
Z.A. La Pièce
CH-1180 Rolle
Switzerland
thermalsolutions.honeywell.com

In our capacity as manufacturer, we hereby declare:

Products labelled accordingly meet the requirements of the listed Directives and Standards. They correspond to the tested type samples. The production is subject to the stated surveillance procedure.

These products comply with the substance restrictions of RoHS II, although they are not in the scope of Directive RoHS II (2011/65/EU).

2019-11-11

A handwritten signature in blue ink, appearing to read 'J. Hepping', is written over a horizontal line.

Manager Standards and Approvals
J. Hepping

HONEYWELL THERMAL SOLUTIONS

Honeywell Products & Solutions Sàrl
Z.A. La Pièce
CH-1180 Rolle
Switzerland
thermalsolutions.honeywell.com



CE Declaration Controls Manufacturer

Branding

Honeywell

Product

Burner Control Relay Module EC78xx / RM78xx Series
with rectification or UV flame sensor
with or without display module S7800
with or without reset module S7820
with or without data communication module S7810

Type & Models

RM7830A1003, RM7830A2003, RM7830A1029, RM7830A2029,
RM7838C1020, RM7838C2020, RM7850A1001, RM7850A2001,
RM7850A1019, RM7850A2019, RM7850A1027, RM7850A2027,
RM7890B1055, RM7890B2055, RM7890A1064, RM7890B2064,
EC7820A1026, EC7820A2026, EC7820A1034, EC7820A2034,
EC7830A1033, EC7830A2033, EC7830A1058, EC7830A1066,
EC7830A2066, EC7850A1072, EC7850A2072, EC7850A1080,
EC7850A2080, EC7850A1098, EC7850A1122, EC7850A2122,
EC7890B1028, EC7890B2028

Product-ID-Number

CE-0063CT1466

In our capacity as manufacturer, we hereby declare:

- ☐ the installation and user's instructions, type plate and packaging inscriptions are translated into the official language of the country of destination, taking into account the national installation regulations of the country concerned;
- ☐ for products, not meant for installation by a professional installer (e.g. leisure products), the manufacturer has investigated which national and regional regulations are in force and that these regulations (additions / restrictions) are implemented in the installation- and user instructions;
- ☒ marking, required by the standard is clearly legible and durable

2018-11-11

Manager Standards and Approvals
J. Hepping