UKCA TYPE EXAMINATION CERTIFICATE

Kiwa Ltd. hereby declares that the model type(s)

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

Manufactured by   **Honeywell Thermal Solutions**
Golden Valley, USA

Meet(s) the essential requirements as described in the:

Gas Appliances Regulation (Regulation (EU) 2016/426 as brought into GB law and amended), and the Gas Appliances (Enforcement) and Miscellaneous Amendment Regulations 2018 No 389, and amendments to UK SI 2019/696 Product Safety and Metrology, and subsequent amendments, The Product Safety, Metrology and Mutual Recognition Agreement (Amendment) (EU Exit) Regulations 2019 No 1246, and subsequent amendments. This certificate is not valid in Northern Ireland – and is applicable to England, Scotland and Wales only.

Reference standards: BS EN 298:2012

Signed on behalf of Kiwa Ltd.
(UK Approved Body Number 0558)

[signature]

Mark Crowther
Technical Director
Kiwa Ltd.

UK CA

UKAS PRODUCT CERTIFICATION

0217

F045 v.3

APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:
Honeywell Thermal Solutions

Series EC7823 (SW Rev. 5000+)

Types:

EC7823A1004   EC7823A2004

Scope:

Application:	Appliances burning gaseous/liquid fuels and permanent/non-permanent operation
Flame detection:	Ionization / UV / IR
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
Flame switch output:	120/240 Vac / max. 4 A for non-permanent operation / max 2 A for permanent operation / cos φ=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:

Flame detector device:	EN 298	Class C

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.

F045-A v.1

APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Series EC7823 (SW Rev. 5000+)

Types:

RM7823A1016   RM7823A2016

Scope:

Application:	Appliances burning gaseous/liquid fuels and permanent/non-permanent operation
Flame detection:	Ionization / UV / IR
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
Flame switch output:	120/240 Vac / max. 4 A for non-permanent operation / max 2 A for permanent operation / cos φ=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:

Flame detector device:	EN 298	Class C

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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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 seconds	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)
R7852Axxxx	FFRT: 2.0 Second	Intermittend use with C7915 (IR)
R7852Bxxxx	FFRT: 2.0 Second	Permanent use with C7915 (IR)

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

APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Remote reset accessories (wired):

S7820A1007

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.

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.

APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

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.

Flame detectors (IR tube sensors): Use with Flame Amplifier R7852A/B:

C7915xxxx   IR flame sensor in standard enclosure. Xxxx refers to various voltage, pipe mount diameter and cable lengths.

Sub base:

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