CERTIFICATE

Number	18GR0781/00	**Contract number**	E 2200
Issue date	07-06-2018	**Scope**	(EU) 2016/426 (9 March 2016)
Due date	07-06-2028	**Module**	B (Type testing)
PIN	0063CT1349	**Report number**	160800349

EU TYPE EXAMINATION CERTIFICATE (GAR)

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

NXF4000

manufactured by **Fireye Inc.**
Derry, USA

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

The compliance is based on examination to EN 298:2012, EN 1643:2014, prEN 12067-2:2016, EN 14459:2007.

The product(s) has/have been approved for all EU and EFTA countries.

A description of the specific types is given in the appendix to this certificate.

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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Manufacturer: Fireye Inc.

Types: NXF4000
NXF4000-230V

Scope:

Application:	Appliances burning gaseous and liquid fuels and permanent operation [1)]
Flame detection:	UV / IR / DC (contact input)
Applied technology:	Complex electronics
Ambient temperature:	-20 °C to +60 °C
Electrical supply:	120 Vac 50/60 Hz / 230 Vac 50/60 Hz
Protection:	With enclosure and IP 10
Installation environment	Pollution degree 1 or 2
Gas valve output:	230 Vac / max. 2.5 A / cos φ=0.7

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

[1)] Permanent operation only in combination with NXCESIR card with IR scanners: 48PT2-xxxx, or NXCESDC card with integrated scanners: 85xxF4-xQDWR, 95UV/IR/DS with S1, S2, or S3-1WINC.

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
Valve proving system (VPS):	EN 1643	Class C
Fuel/air ratio control (ERC):	prEN 12067-2	Class C
Reset function:	EN 14459, Annex J	Class B

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

Remarks/special conditions:
The Flame failure response time is programmable from 1 to 4 seconds. The default value for the NXF4000-230V model is 1 second.

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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

List of approved combinations:

Model	Characteristics
NXD410	User Interface with keypad
NXTSD407	Touchscreen Interface 7”
NXTSD413	Touchscreen Interface 13.3”
FX04	Servo motor, 24 VDC operation, 4Nm, without connectors
FX20	Servo motor, 24 VDC operation, 20Nm, without connectors
FX50	Servo motor, 24 VDC operation, 50Nm, without connectors
FX04-1	Servo motor, 24 VDC operation, 4Nm, with connectors
FX20-1	Servo motor, 24 VDC operation, 20Nm, with connectors
FX50-1	Servo motor, 24 VDC operation, 50Nm, with connectors
NXCESUV	FSG Plug-in card, UV application
NXCESIR	FSG Plug-in card, IR application
NXCESDC	FSG Plug-in card, Direct-Couple interface for use with Integrated scanners or Flame-switches
NXCESVFD	FSG Plug-in card, provides variable frequency (VFD/VSD) capability
FXCESO2-8	Oxygen Probe, insertion length is 8 inches
FXCESO2-16	Oxygen Probe, insertion length is 16 inches
FXCESO2-30	Oxygen Probe, insertion length is 30 inches
FXO2TRIM-1	Type 2 O2 trim interface
FXIATS-140	Ambient Air Transmitter
UV90L-1	UV scanner, front and side viewing, terminal block
UV5-1	UV scanner, front and side viewing, 78” (2000mm) flying leads
UV1AL-3	UV scanner, 1/2” NPT, 36” (915mm) shielded leads
UV1AL-6	UV scanner, 1/2” NPT, 72” (1830mm) shielded leads
48PT2-1003	Infrared scanner, 1/2” straight mount, 96” (2438mm) TC-ER Cable
48PT2-9003	Infrared scanner, 90 degree angle mount, 96” (2438mm) TC-ER Cable
48PT2-1007	Infrared scanner, 1/2” straight mount, 48” (1219mm) TC-ER Cable
48PT2-9007	Infrared scanner, 90 degree angle mount, 48” (1219mm) TC-ER Cable
85UVF4-1QDWR	Phoenix Integrated Scanner, Ultra-violet
85IRF4-1QDWR	Phoenix Integrated Scanner, Infrared
85UVF4-2QDWR	Fiber optic version of standard Phoenix Integrated Scanner, Ultra-violet
85IRF4-2QDWR	Fiber optic version of standard Phoenix Integrated Scanner, Infrared
95UV with suffix S1, S2, or S3-1WINC *)	InSight Scanner – Ultra-violet
95IR with suffix S1, S2, or S3-1WINC *)	InSight Scanner – Infrared
95DS with suffix S1, S2, or S3-1WINC *)	InSight Scanner – Dual detector
TS350	Temperature Sensor, range: 0°C to 176°C
TS752	Temperature Sensor, range: 0°C to 400°C
BLPS-xxxx	Pressure sensor, ranges: -1013 mb up to 20.7 Bar

*) 95UV, 95IR, and 95DS, with suffix S1 or S2 are to be used with one of the following cable assemblies:
59-497-XXX-WR, 59-497-XXXC-WR, 59-497-XXXR-WR, 59-497-XXXRC-WR.