

Manufactured and designed by  
**Energy Technology and Control Ltd.**  
Located at  
**Sussex, United Kingdom**

## FUNCTIONAL SAFETY CERTIFICATE

Kiwa Gastec Certification hereby declares that the  
**Parallel Positioning Controller, type**

### **Fireye Inc. PPC6000**

and the associated components as detailed in the appendices to this certificate are suitable for inclusion in a S.I.L. 3 loop.

The compliance is based on an evaluation to EN 61508 (2001).

Report number : 123836

The systems and their associated components only comply with the above listed safety requirements if the specifications and instructions as detailed in the commissioning manual are met.


The PPC6100 Parallel Positioning Controller provides fuel air ratio control systems for industrial burners, providing a PID function to control the pressure/temperature of the boiler by modulating the fire rate. The controller can be complemented with various boiler sensors, servo motors, display boards, oxygen probe interface and daughter boards.

#### **GASTEC**

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Number E 1855 FS6

Issued 9 July 2009

  
ij. M.L.D. van Rij,  
Division Director.



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## FUNCTIONAL SAFETY CERTIFICATE

Kiwa Gastec Certification hereby declares that the  
**Integrated Burner Controller, type**

### **Fireye Inc. Nexus NX6100**

and the associated components as detailed in the appendices to this certificate are suitable for inclusion in a S.I.L. 3 loop.

The compliance is based on an evaluation to EN 61508 (2001).

Report number : 123836


The systems and their associated components only comply with the above listed safety requirements if the specifications and instructions as detailed in the commissioning manual are met.

The NX6100 Integrated Burner Controller provides fully integrated burner control systems for industrial burners, providing a PID function to control the pressure/temperature of the boiler by modulating the fire rate, full burner management functions including flame/air pressure monitoring and a fuel shut-off valve control. The controller can be complemented with various boiler sensors, servo motors, display boards, oxygen probe interface and daughter boards.

Where a safety limit function or gas valve proving function is mandatory for the application, the system shall be included with respectively a Fireye Inc. fail safe temperature sensor or pressure sensor.

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FUNCTIONAL SAFETY CERTIFICATE: E 1855 FS1 to FS6

Appendix no.: 1

Dated: July 2009

Examination report(s):

123836 dated November 2008

This appendix supersedes appendix no. 1 dated Dec. 2008.

Integrated Burner Controller, type Fireeye Inc. Nexus NX6100.

List of all available types:

Model:	Characteristics:
NX6100	Standard control.

List of approved combinations:

Model:	Characteristics:
NX1021	Gas Pressure Sensor 600mBar
NX1030	Steam Pressure Sensor 25Bar
NX1034	Pressure Sensor (Gas or Steam) 4Bar
NX1040	Boiler Temperature Sensor 0 – 150°C
NX1044	Boiler Temperature Sensor 0 – 400°C
LA220978	Oxygen Probe
LA220979	Oxygen Probe
LA220980	Oxygen Probe
NXCBH	External PSU & CANbus Hub
NXC04	Servo 4Nm
NXC12	Servo 10Nm
NXC20	Servo 20Nm
NXC04A	Servo 4Nm
NXC15A	Servo 15Nm
NXC20A	Servo 20Nm
NXC40	Servo 40Nm
NXC20S	Servo 20Nm
NXC50S	Servo 50Nm
NXDBMB	Daughter Board (comms only)
NXDBISO	Daughter Board (comms + 4-20mA)
NXDBVFD	Daughter Board (comms + inverter interface)
NX6101	Display Unit, 12 key (Basic Function)
NX6110	Display Unit, 12 key (Including Relays & RTC)
NX6120	Display Unit, 12 key (Including Relays, RTC, Data Logging)
NXO2INT	Oxygen Probe Interface
NXIATS	Temp Sensor
NXESI120	Servo Interface
NXTSD104	10.4" Touch Screen Display



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Dated: July 2009

Examination report(s):

123836 dated November 2008

This appendix supersedes appendix no. 1 dated Dec. 2008.

Parallel Positioning Controller, type Fireye Inc. PPC6000.

List of all available types:

Model:	Characteristics:
PPC6000	Standard control.

List of approved combinations:

Model:	Characteristics:
LA220978	Oxygen Probe
LA220979	Oxygen Probe
LA220980	Oxygen Probe
NXCBH	External PSU & CANbus Hub
NXC04	Servo 4Nm
NXC12	Servo 10Nm
NXC20	Servo 20Nm
NXC04A	Servo 4Nm
NXC15A	Servo 15Nm
NXC20A	Servo 20Nm
NXC40	Servo 40Nm
NXC20S	Servo 20Nm
NXC50S	Servo 50Nm
NXDBMB	Daughter Board (comms only)
NXDBISO	Daughter Board (comms + 4-20mA)
NXDBVFD	Daughter Board (comms + inverter interface)
NX600	Display Unit,9 key (Basic Function)
NX610	Display Unit,9 key (Including Relays & RTC)
NX620	Display Unit,9 key (Including Relays, RTC, Data Logging)
NXO2INT	Oxygen Probe Interface
NXIATS	Temp Sensor
NXESI120	Servo Interface
NXTSD104	10.4" Touch Screen Display