![kiwa — Partner for progress]

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.

Number   E 1500 P56

Issued   9 July 2009

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

kiwa

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Manufactured and designed by
Energy Technology and Control Ltd.
Located at
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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   : 123806

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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ir. M.E.D. van Rij
Division Director.

FUNCTIONAL SAFETY CERTIFICATE: E 1855 FS1 to FS6
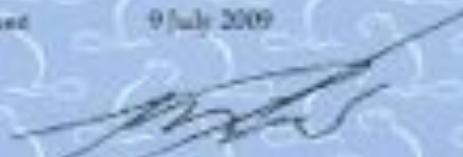
This appendix supersedes appendix no. 1 dated Dec. 2008.

Integrated Burner Controller, type Fireye 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
NXUATS	Temp Sensor
NXESI120	Servo Interface
NXTSD104	10.4" Touch Screen Display

FUNCTIONAL SAFETY CERTIFICATE: E 1855 FS1 to FS6

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:
LA223978	Oxygen Probe
LA223879	Oxygen Probe
LA223980	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