Nexus® Combustion Efficiency Systems
Burner Controls

fireye

NX6100 and PPC6000

Designed for combustion efficiency applications optimized for performance and affordability

Benefits

- Increases efficiency
- Reduces fuel consumption
- Reduces emissions and greenhouse gases
- Reduces downtime and maintenance

PPC6000

Air/Fuel Ratio Control

Requires flame safeguard system such as BurnerLogiX® or Flame Monitor®

Features (PPC6000 & NX6100)

- Four fuel profiles and sequencing for up to four boilers
- Twelve key keypad or industrially hardened 10.4" color touchscreen display options
- Up to ten 24 volt servo motors from wide range: 3, 10, 15, 37 ft/lb.
- Nine user defined digital inputs (NX6100)
- CANBus two wire communication for simplified wiring
- Four user defined digital inputs (PPC6000)
- Optional external O2/CO trim interface
- Optional VSD with two VSD and one 4-20 mA. outputs
- Optional MODbus RTU card
- Optional water level, draft and total dissolved solids controller
- Two PID control loops per profile
- Master OEM pass code feature
- FGR hold off (time or temperature)
- Combustion air pressure profiling using CANbus sensor (independent VFD feedback)

NX6100

Advanced Burner Management System with Parallel Positioning and Integrated Flame Safeguard

Features (NX6100 Only)

As per PPC600 plus:

- Integrated fully functional and configurable flame safeguard
- Built-in UV, UV Self Check and IR Detection, compatible with Fireye integrated InSight and Phoenix Scanners
- UVSC CANbus sensors for flame monitoring
- Two scanners per profile with scanner selection by profile (UV profile one, IR profile two)
- Recycle on pilot flame loss
- Digital pressure switches for valve proving (analog pressure sensor option still available)

NEXUS®

Technical Specifications	NX6100	PPC6000
Supply Voltage	120/230 VAC, 50/60Hz	120/230 VAC, 50/60Hz
Power Consumption	Approx. 60 VA (with display attached & no accessories)	Approx. 60 VA (with keypad display attached & no accessories)
Ambient Temperature Range	32° to 140°F (0° to 60°C)	32° to 140°F (0° to 60°C)
Typical Loads	Display: 6 VA Oxygen Probe: 12 VA NCX04: 3 VA NCX12: 5 VA NXC20: 10 VA NXC40: 18 VA	Display: 6 VA Oxygen Probe: 12 VA NCX04: 3 VA NCX12: 5 VA NXC20: 10 VA NXC40: 18 VA
Control Unit Dimensions	8.27" (210mm) wide x 4.92" (125mm) high x 3.15" (80mm) deep	8.27" (210mm) wide x 4.92" (125mm) high x 3.15" (80mm) deep
Weight	4.70 lbs (2.13kg)	4.70 lbs (2.13kg)

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NEXUS

BURNER CONTROL SYSTEM

An electronic parallel positioning and O2 trim combustion control system, the NX61000 and PPC6000 models offers integrated burner management. The addition of the NXEXP300 expansion module offers water level, draft and total dissolved solids functionality.

NEXUS EFFICIENCY CONTROLLER

NX6100
PPC6000
NXEXP300

SERVO MOTORS

NXC Series

4Nm

20Nm

40Nm

DISPLAYS

NX6220 / NX6330

NXTSD104

OXYGEN MEASUREMENT

NXO2TRIM

SENSORS

NX104x

NX102x

NX103x

BLPS

NXIATS

TS350/752

SCANNERS

UV1AL

45UV5

48PT2

85UVF/IRF

95DSS3

For more information, please contact your local Fireye Distributor.

fireye.com

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