

**Low cost – Easy to install – Easy to use**  
**Easy to Save Energy – Burner/Boiler controls**

**NEXUS**

**PPC4000**

**Combustion Efficiency System**



**Easy to install**

Quick connects available for fool proof wiring.  
Line voltage digital inputs – no expensive cable, low voltage drop out.  
Position buttons at servos for 1 person set up of valves and dampers.  
ModBus control means easy 4 wire hook up.  
No end switches to set.  
Industrial grade servos with up to 37 lb-ft torque.  
Works with Fireye or competitive FSG.



**Easy to set up**

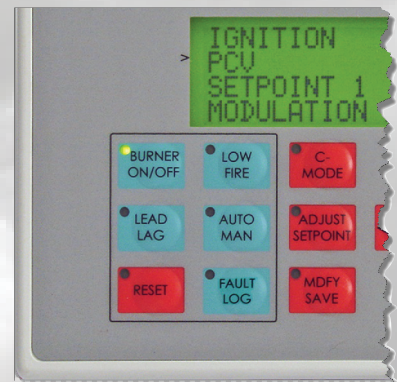
Simple drop down menu choices.  
Concise instructions.  
Help button available in all screens.  
Computer NOT required.  
Matched range sensors.



**NXD410**

**Easy to use**

Help screen for any menu.  
One button set point adjust.  
One button lead – lag.  
One button auto – manual.  
One button Low Fire Hold.  
Data saved to Smart Card.  
Password protection.



**Easy to save energy**

3 – 5% or more fuel savings.  
Reduce greenhouse emissions.  
O2 probe and VFD available.  
Sequencing to run most efficient boilers.  
Time of day set back.  
Dual strategy thermal shock protection

**The Combustion Control Specialists**

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[www.fireye.com](http://www.fireye.com)



 United Technologies



## PPC4000 System Specifications

<b>PPC4000 - Control</b>	<b>Air/Fuel Ratio Control</b>
<b>Supply Voltage:</b>	120 VAC, 50/60Hz
<b>Power Consumption:</b>	Approx. 20VA (with display attached & no accessories)
<b>Ambient Temperature Range:</b>	32°F to 140°F (0°C to +60°C)
<b>Protection Category:</b>	NEMA 1 (IP01)
<b>Dimensions:</b>	5.0" (127mm) wide x 8.0" (203mm) high x 4.0" (102mm) deep
<b>Weight:</b>	2.25 lbs (1.02kg)
<b>NXD410 - Display</b>	<b>4 line 40 character dot-matrix backlit LCD</b>
<b>Dimensions:</b>	5.875" (149mm) wide x 4.25" (108mm) high - Panel Cutout: 5.35 (136mm)L x 3.78 (96mm)W
<b>Supply Voltage:</b>	NXD410 24 VDC @ 250 mA (supplied by PPC4000)
<b>Power Consumption:</b>	50 VA
<b>Temperature Rating:</b>	32°F to 140°F (0°C to +60°C)
<b>Protection Category:</b>	NEMA 4X indoors only, IP65
<b>O2 Probes</b>	
<b>NXCES02-8</b>	O2 probe assembly, 8" insertion
<b>NXCES02-16</b>	O2 probe assembly, 16" insertion
<b>NXCES02-30</b>	O2 probe assembly, 30" insertion

Servo Type	FX04-1	FX20-1	FX50-1
<b>Supply Voltage</b>	24VDC +/-10%,	24VDC +/-10%,	24VDC +/-10%,
<b>Nominal Torque</b>	3 lbs-ft/4Nm	15 lbs-ft/20Nm	37 lbs-ft/50Nm
<b>Power Consumption:</b>	5 VA	15 VA	50 VA
<b>Temperature Rating:</b>	32°F to 140°F (0°C to +60°C)	32°F to 140°F (0°C to +60°C)	32°F to 140°F (0°C to +60°C)
<b>Protection Category:</b>	NEMA 4 IP 65	NEMA 4 IP 65	NEMA 4 IP 65
<b>Maximum Angle Rotation:</b>	100°	100°	100°
<b>Nominal Dimensions:</b>	4.59"(116.8mm) high x 3.27" (83.1mm) wide x 4.91" (124.7mm) deep	6.51"(165.4mm) high x 4.08" (103.5mm) wide x 7.24" (183.7mm) deep	5.36"(136mm) high x 4.76" (121mm) wide x 7.31" (185.8mm) deep
<b>Weight:</b>	2.27 lb / 1.03 kg	5.43 lb / 2.46 kg	6.10 lb / 2.77 kg

**Distributor:**

