

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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 United Technologies



PPC4000 System Specifications

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

Servo Type	FX04-1	FX20-1	FX50-1
Supply Voltage	24VDC +/-10%,	24VDC +/-10%,	24VDC +/-10%,
Nominal Torque	3 lbs-ft/4Nm	15 lbs-ft/20Nm	37 lbs-ft/50Nm
Power Consumption:	5 VA	15 VA	50 VA
Temperature Rating:	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)
Protection Category:	NEMA 4 IP 65	NEMA 4 IP 65	NEMA 4 IP 65
Maximum Angle Rotation:	100°	100°	100°
Nominal Dimensions:	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
Weight:	2.27 lb / 1.03 kg	5.43 lb / 2.46 kg	6.10 lb / 2.77 kg

Distributor:

