

R7999 to PPC4000 Conversion

RM7800L terminal	Q7800C1001 terminal	R7999 terminal	PPC4000 terminal	Description
4	1	1	P3.1	line 120V
L2	2	3	P3.2	neutral 120V
G	GND	2	chassis	physical earth ground
4	CS_B		*panel 120V*	line to limit string
n/a	CS_Y	13	P4.3 and P13.10	beginning of operating limit string
6	OL2	14	P4.4	end of operating limit string
6	A1		P5.9	line to safety limit string
7	A2		P5.10	end of safety limit string
5	BM	1	P4.4	line to fuel select
		5	P15.8	input to select gas
		6	P15.7	input to select oil
		35	*panel 120V*	to remote reset normally open pushbutton
		38	P13.1	to remote reset normally open pushbutton
3		7	P4.2	line output to alarm (lockout)
12		10	P15.2	input to drive to high purge position
13		11	P15.4	input to modulate in auto
14		12	P15.3	input to drive to low fire position
19		8	P5.2	output to prove high purge position
18		9	P5.1	output to prove low fire position
		39	P11.10	external load controller 4-20mA (+)
		40	P11.11	external load controller 4-20mA (-)

NOTES:

Conversion is almost wire-for-wire except that PPC4000 is a device in the safety limit string.

Program digital input 1 for burner control function with AND action.

Program digital input 10 for remote reset function (if needed).

Connect PPC4000 terminal P4.1 to line 120V.

Auto/manual is handled using the NXD410TS user interface.

It is recommended that a temperature or pressure sensor is used instead of the external load controller.