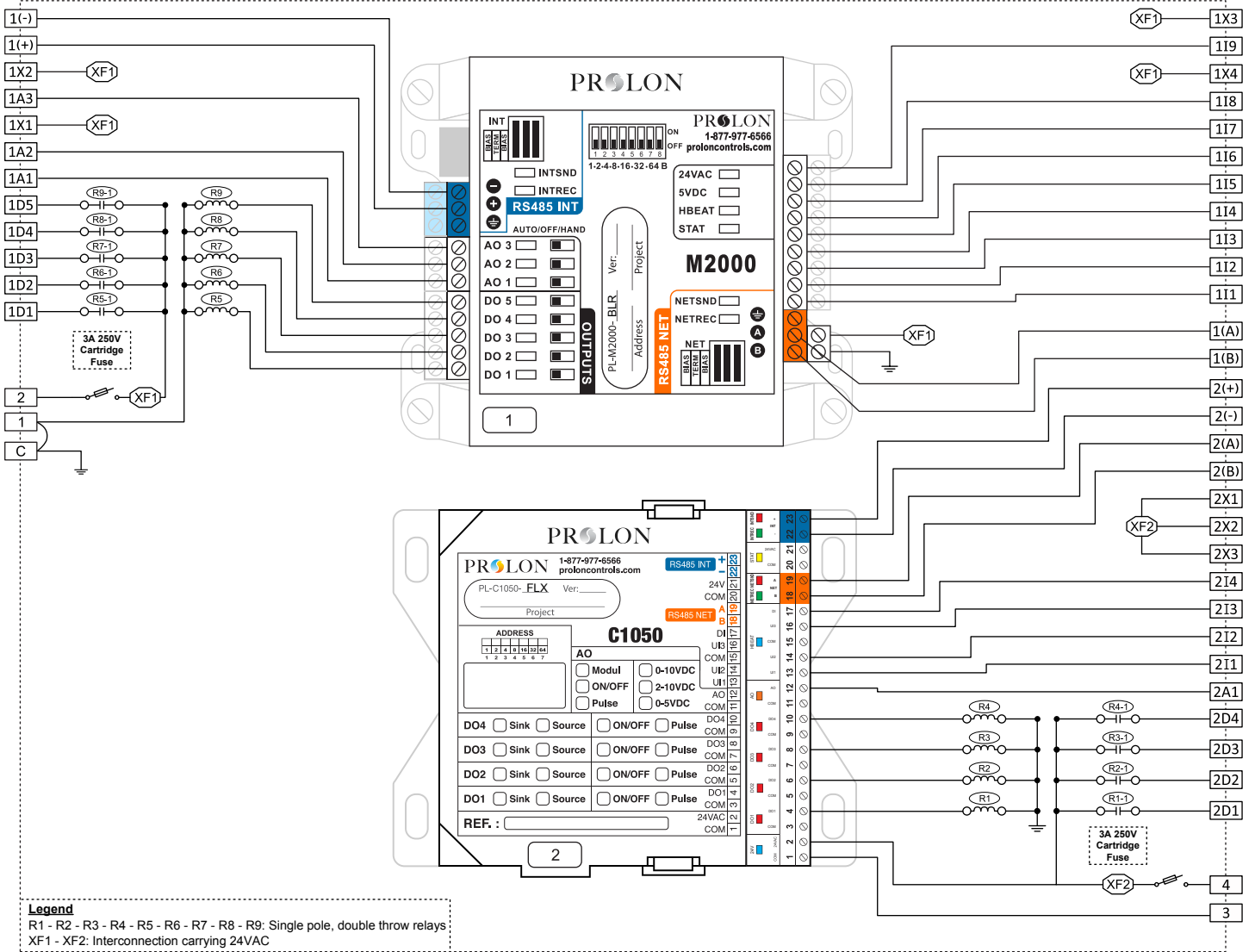


PL-PN2-4F-7C

VERSION 4

Internal Electrical Wiring Diagram



Field Wiring Details

ALL TERMINALS: Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm

Terminal	Function	Ratings	Terminal	Function	Ratings
⏚	GROUND	N/A	1I1	Supply Water Temperature Thermistor (10K Type 3)	N/A
1 & 3	Power Supply Input Common	N/A	4	Supply Input 24VAC (XF2)	24VAC, 3A, 60Hz
2	Supply Input 24VAC (XF1)	24VAC, 3A, 60Hz	2D1	(R1) - Digital Output 1	24VAC, 300mA
1D1	(R5) - Boiler Stage 1 Output	24VAC, 300mA	2D2	(R2) - Digital Output 2	24VAC, 300mA
1D2	(R6) - Boiler Stage 2 Output	24VAC, 300mA	2D3	(R3) - Digital Output 3	24VAC, 300mA
1D3	(R7) - Boiler Stage 3 Output	24VAC, 300mA	2D4	(R4) - Digital Output 4	24VAC, 300mA
1D4	(R8) - Boiler Stage 4 Output	24VAC, 300mA	2A1	Analog Output 1	0-10VDC, 40mA
1D5	(R9) - Pump 1 Output	24VAC, 300mA	2I1	Universal Input 1	N/A
1A1	Pump 2 Output	0-10VDC, 40mA	2I2	Universal Input 2	N/A
1A2	Modulating Boiler Output	0-10VDC, 40mA	2I3	Universal Input 3	N/A
1X1	24VAC Supply	24VAC, 8.5VA	2I4	Digital Input (Dry Contact)	N/A
1A3	Valve or Backup Modulating Boiler	0-10VDC, 40mA	2X3	Power Supply 24VAC	24VAC, 60Hz
1X2	24VAC Supply	24VAC, 5VA	2X2	Power Supply 24VAC	24VAC, 60Hz
1X3	24VAC Supply	24VAC, 0.03A	2X1	Power Supply 24VAC	24VAC, 60Hz
1I9	N/A	0-5VDC, 5uA	1 (+)	M2000 RS485 INT A (+)	N/A
1X4	24VAC Supply	24VAC, 6.7VA	1 (-)	M2000 RS485 INT B (-)	N/A
1I8	N/A	4-20mA, 1-5VDC	1 (A)	M2000 RS485 NET A (+)	N/A
1I7	Dry Contact to Disable Boiler Call	N/A	1 (B)	M2000 RS485 NET B (-)	N/A
1I6	Dry Contact for Max Heat Setpoint	N/A	2 (+)	C1050 RS485 INT A (+)	N/A
1I5	Dry Contact for Proof of Pump 2	N/A	2 (-)	C1050 RS485 INT B (-)	N/A
1I4	Dry Contact for Proof of Pump 1	N/A	2 (A)	C1050 RS485 NET A (+)	N/A
1I3	Return Water Temp. Thermistor (10K Type 3)	N/A	2 (B)	C1050 RS485 NET B (-)	N/A
1I2	Supply Water Temp. Thermistor (10K Type 3)	N/A	C	COMMON	N/A

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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