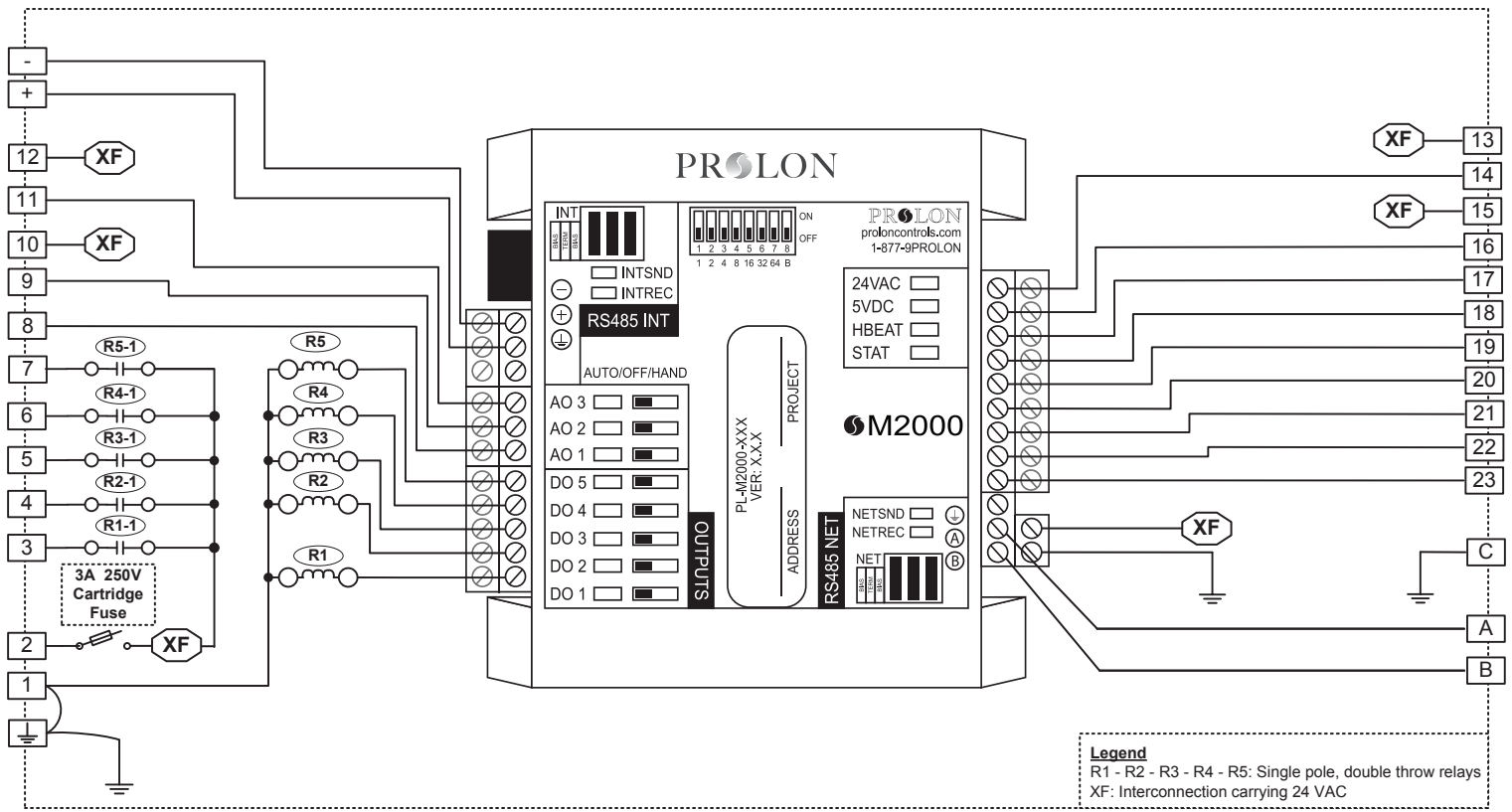


PL-PANEL-M2000-FCU

Internal Electrical Wiring Diagram (Two-Pipe System)



Field Wiring Details

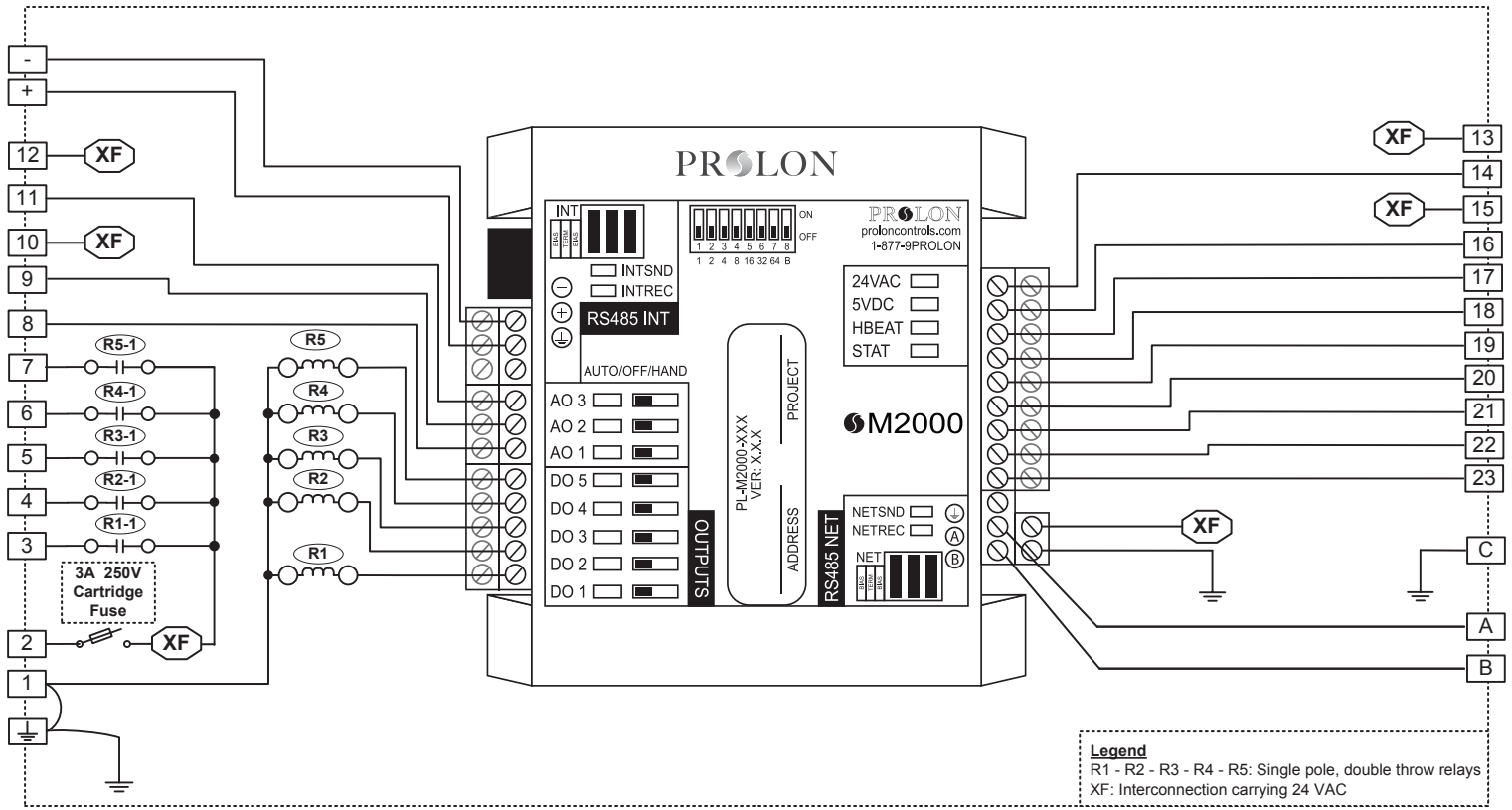
Terminal	Function	Ratings	Wiring Details	Terminal	Function	Ratings	Wiring Details
	GROUND	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	15	24 VAC Supply	24 VAC, 6.7 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
1	Power Supply Input Commun	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	16	A18 - Alarm (Dry Contact)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
2	Power Supply Input 24 VAC	24 VAC, 3 A, 60Hz	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	17	A17 - Proof of Fan (Dry Contact)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
3	DO1 - Fan Speed 1	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	18	A16 - Zone Setpoint ((10-9K) for potentiometer)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
4	DO2 - Fan Speed 2	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	19	A15 - Zone Air Temperature (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
5	DO3 - N/A	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	20	N/A	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
6	DO4 - Valve (ON/OFF)	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	21	A13 - Supply Air Temperature (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
7	DO5 - Reheat (ON/OFF, pulsed)	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	22	A12 - Pipe Water Temperature / Changeover (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
8	AO1 - Modulating Reheat	0-10 VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	23	A11 - Outside Air Temperature (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
9	AO2 - Modulating Valve	0-10 VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	+	M2000 RS485 INT A (+)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
10	24 VAC Supply	24 VAC, 8.5 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	-	M2000 RS485 INT B (-)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
11	AO3 - N/A	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	A	M2000 RS485 NET A (+)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
12	24 VAC Supply	24 VAC, 5 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	B	M2000 RS485 NET B (-)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
13	24 VAC Supply	24 VAC, 0.03 A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	C	COMMUN	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
14	A19 - N/A	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm				

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.



PL-PANEL-M2000-FCU

Internal Electrical Wiring Diagram (Four Pipe System)



Field Wiring Details

Terminal	Function	Ratings	Wiring Details	Terminal	Function	Ratings	Wiring Details
	GROUND	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	15	24 VAC Supply	24 VAC, 6.7 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
1	Power Supply Input Commun	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	16	A18 - Alarm (Dry Contact)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
2	Power Supply Input 24 VAC	24 VAC, 3 A, 60Hz	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	17	A17 - Proof of Fan (Dry Contact)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
3	DO1 - Fan Speed 1	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	18	A16 - Zone Setpoint ((I0-9K) for potentiometer)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
4	DO2 - Fan Speed 2	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	19	A15 - Zone Air Temperature (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
5	DO3 - N/A	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	20	A14 - Cold Water Temperature (10K Type 3) (optional)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
6	DO4 - ON/OFF Cool Valve	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	21	A13 - Supply Air Temperature (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
7	DO5 - ON/OFF Heat Valve / Reheat	24 VAC, 300 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	22	A12 - Hot Water Temperature (10K Type 3) (optional)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
8	AO1 - Modulating Reheat	0-10 VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	23	A11 - Outside Air Temperature (10K Type 3)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
9	AO2 - Modulating Cool Valve	0-10 VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	+	M2000 RS485 INT A (+)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
10	24 VAC Supply	24 VAC, 8.5 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	-	M2000 RS485 INT B (-)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
11	AO3 - Modulating Heat Valve	0-10 VDC, 40 mA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	A	M2000 RS485 NET A (+)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
12	24 VAC Supply	24 VAC, 5 VA	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	B	M2000 RS485 NET B (-)	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
13	24 VAC Supply	24 VAC, 0.03 A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm	C	COMMUN	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm
14	A19 - N/A	N/A	Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm				

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.

