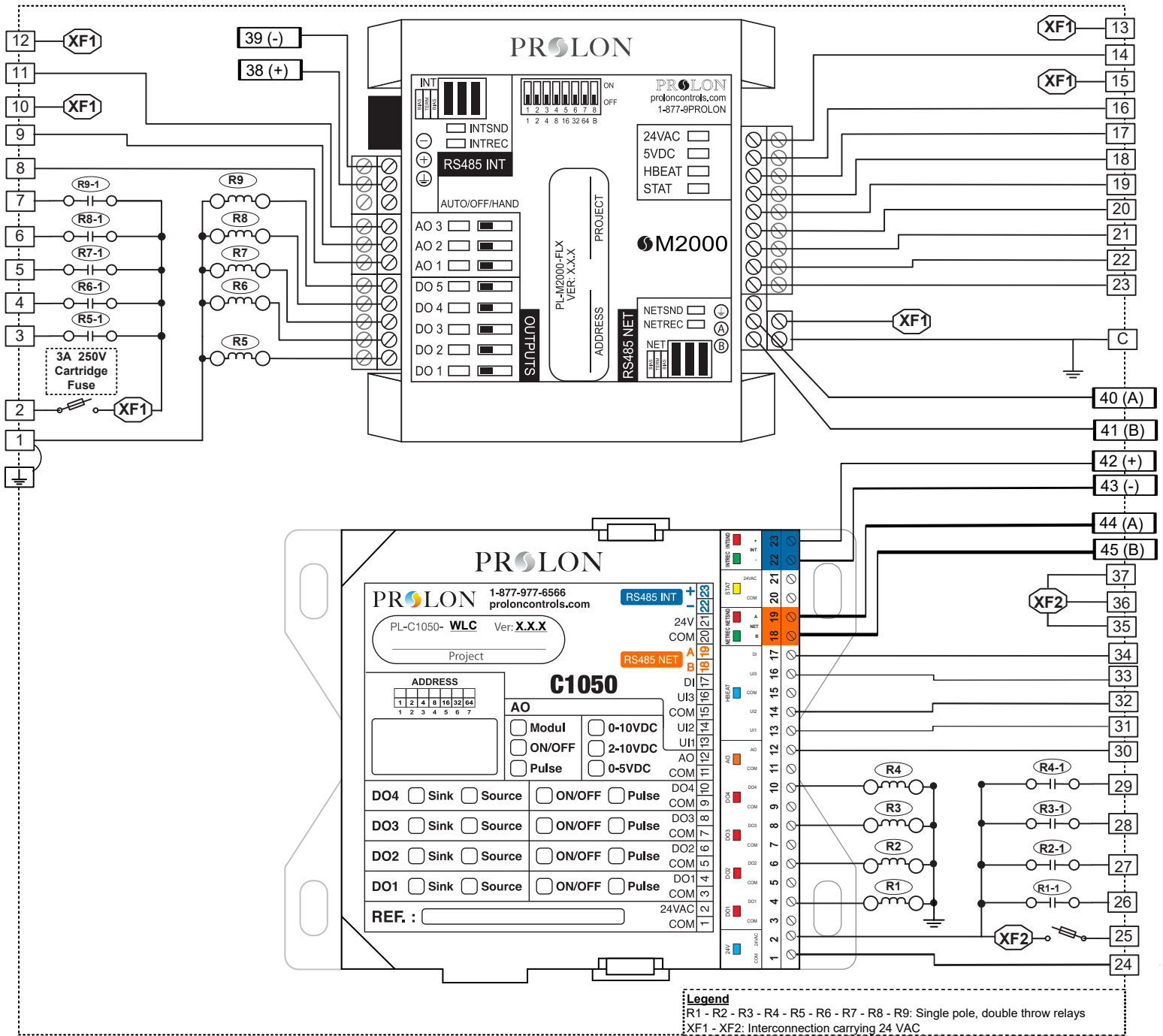


PL-PN2-C1-WLC-M2-FLX

Internal Electrical Wiring Diagram



Legend
 R1 - R2 - R3 - R4 - R5 - R6 - R7 - R8 - R9: Single pole, double throw relays
 XF1 - XF2: Interconnection carrying 24 VAC

| Terminal | Function | Rating | Wiring Details |
|----------|---------------------------|-------------------|---|
| Ground | GROUND | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 1 - 24 | Power Supply Input Common | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 2 | Supply Input 24 VAC (XF1) | 24 VAC, 3 A, 60Hz | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 3 | Digital Output 1 | 24 VAC, 300 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 4 | Digital Output 2 | 24 VAC, 300 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 5 | Digital Output 3 | 24 VAC, 300 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 6 | Digital Output 4 | 24 VAC, 300 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 7 | Digital Output 5 | 24 VAC, 300 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 8 | Analog Output 1 | 0-10VDC, 40mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 9 | Analog Output 2 | 0-10VDC, 40mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 10 | Power Supply 24VAC | 24 VAC, 8.5 VA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 11 | Analog Output 3 | 0-10VDC, 40mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 12 | Power Supply 24VAC | 24 VAC, 5 VA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 13 | Power Supply 24VAC | 24 VAC, 0.03 A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 14 | Analog Input 9 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 15 | Power Supply 24VAC | 24 VAC, 6.7 VA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 16 | Analog Input 8 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 17 | Analog Input 7 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 18 | Analog Input 6 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 19 | Analog Input 5 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 20 | Analog Input 4 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 21 | Analog Input 3 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 22 | Analog Input 2 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |

| Terminal | Function | Rating | Wiring Details |
|----------|--|--------------------|---|
| 23 | Analog Input 1 | 5 VDC, 20 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 25 | Supply Input 24 VAC (XF2) | 24 VAC, 3 A, 60 Hz | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 26 | Boiler (digital - ON/OFF) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 27 | Valve / Damper / Cooling (digital - ON/OFF) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 28 | Spray pump (digital - ON/OFF) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 29 | Water tower stage 1 (digital - ON/OFF) | 24 VAC, 300 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 30 | Water tower stage 2 (analog 0-10 VDC) | 0-10VDC, 40 mA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 31 | Auxiliary temperature sensor (10K thermistor) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 32 | Return water temperature sensor (10K thermistor) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 33 | Supply water temperature sensor (10K thermistor) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 34 | Auxiliary digital input | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 35 | Power Supply 24 VAC | 24 VAC, 3 A, 60 Hz | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 36 | Power Supply 24 VAC | 24 VAC, 3 A, 60 Hz | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 37 | Power Supply 24 VAC | 24 VAC, 3 A, 60 Hz | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 38 (+) | M2000 RS485 INT (+) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 39 (-) | M2000 RS485 INT (-) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 40 (A) | M2000 RS485 NET (A) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 41 (B) | M2000 RS485 NET (B) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 42 (+) | C1050 RS485 INT (+) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 43 (-) | C1050 RS485 INT (-) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 44 (A) | C1050 RS485 NET (A) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| 45 (B) | C1050 RS485 NET (B) | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |
| C | COMMON | N/A | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5 m |