Q-PAC FAN WIRING GUIDE
PREMIUM CONTROLS V3.2.0

Q-PAC

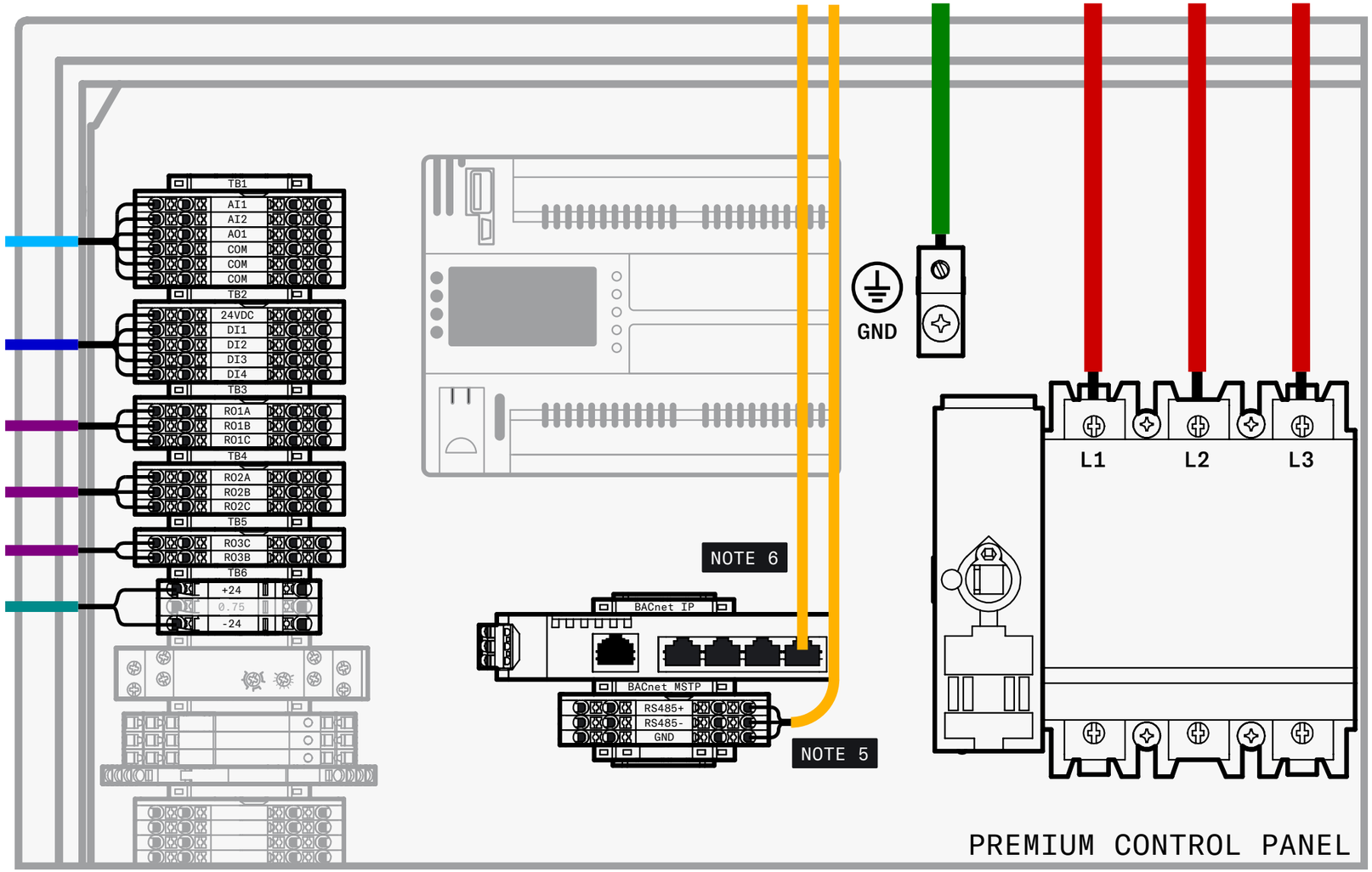
Use this wiring guide to connect the **Q-PAC Fan with a Q-PAC Premium Control Panel** to your BMS or other HVAC control system. For details on panel functions and settings, check the **Q-PAC User Manual for Premium Controls**.

EXTERNAL CONNECTIONS

			REQ
TB 1			
AI1	Speed control, 0-10VDC	Analog Input	X
AI2	Static pressure sensor, 0-10VDC	Analog Input	
AO1	Calculated airflow, 0-10VDC	Analog Output	
COM	Common for analog signals	Common	X
TB 2			
24VDC	Output for Digital Input controls (DI1-DI4), 24VDC	Digital Output	X
DI1	Safety Circuit	Digital Input	X
DI2	Start/Stop	Digital Input	X
DI3	Interlock; see User Manual to enable.	Digital Input	
DI4	Fireman Override; see User Manual to enable.	Digital Input	
TB 3			
RO1A	Ready/Operational (RO1C-RO1A connected)	Relay Output	
RO1B	Not Ready/Operational (RO1C-RO1B connected)		
RO1C	Max 230VAC/24VDC at max 1A current		
TB 4			
RO2A	Running (RO2C-RO2A connected)	Relay Output	
RO2B	Not Running (RO2C-RO2B connected)		
RO2C	Max 230VAC/24VDC at max 1A current		
TB 5			
RO3C	Normally open (unpowered) contact of the alarm relay. Upon powering, the contact closes to indicate no active alarm. If a fault occurs, the contact reopens.	Relay Output	
RO3B			
TB 6			
+24	Supplemental power supply for field-supplied sensors and controls, 24VDC output, 0.75A maximum.		
-24			
CONTROLLER			
RS485+	Differential pair signals for BACnet MS/TP connections		Note 5
RS485-			
GND	Signal ground for BACnet MS/TP connections		Note 5
NETWORK SWITCH	Ethernet port for BACnet/IP connections		Note 6
FUSED DISCONNECT SWITCH			X
L1/L2/L3	3 Phase 208V or 480V input voltage, per Fan Controller Nameplate		
EARTH GROUND			X

NOTES:

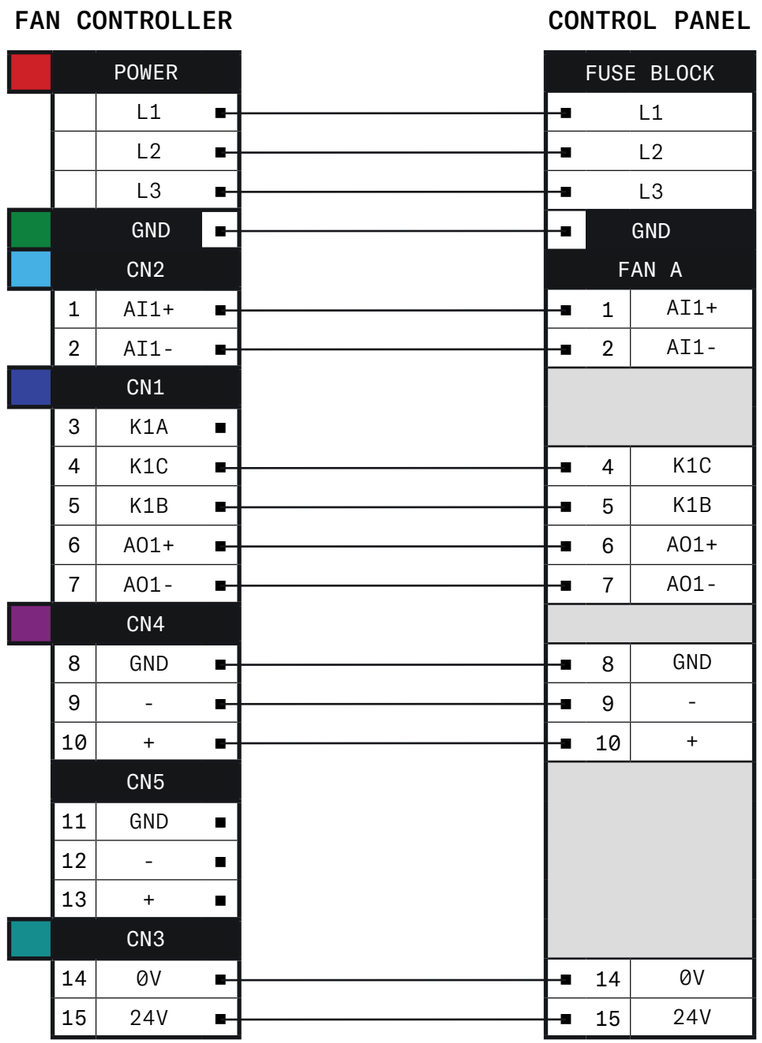
1. Refer to the document pouch included with the Control Panel for detailed panel schematics and support information.
2. Conductor size to be determined by NEC and Control Panel FLC, as listed on the Control Panel nameplate.
3. All colored lines indicate wiring to be completed by others in the field. All open-ended lines indicate connections to an external device or system.
4. Component drawing sizes and positions adjusted for clarity. Actual components may vary with vendor availability and lead time.
5. RS485+/- and associated GND connection are optional connections, required only if using BACnet MS/TP.
6. Network Switch Ethernet connection is optional, required only if using BACnet/IP.

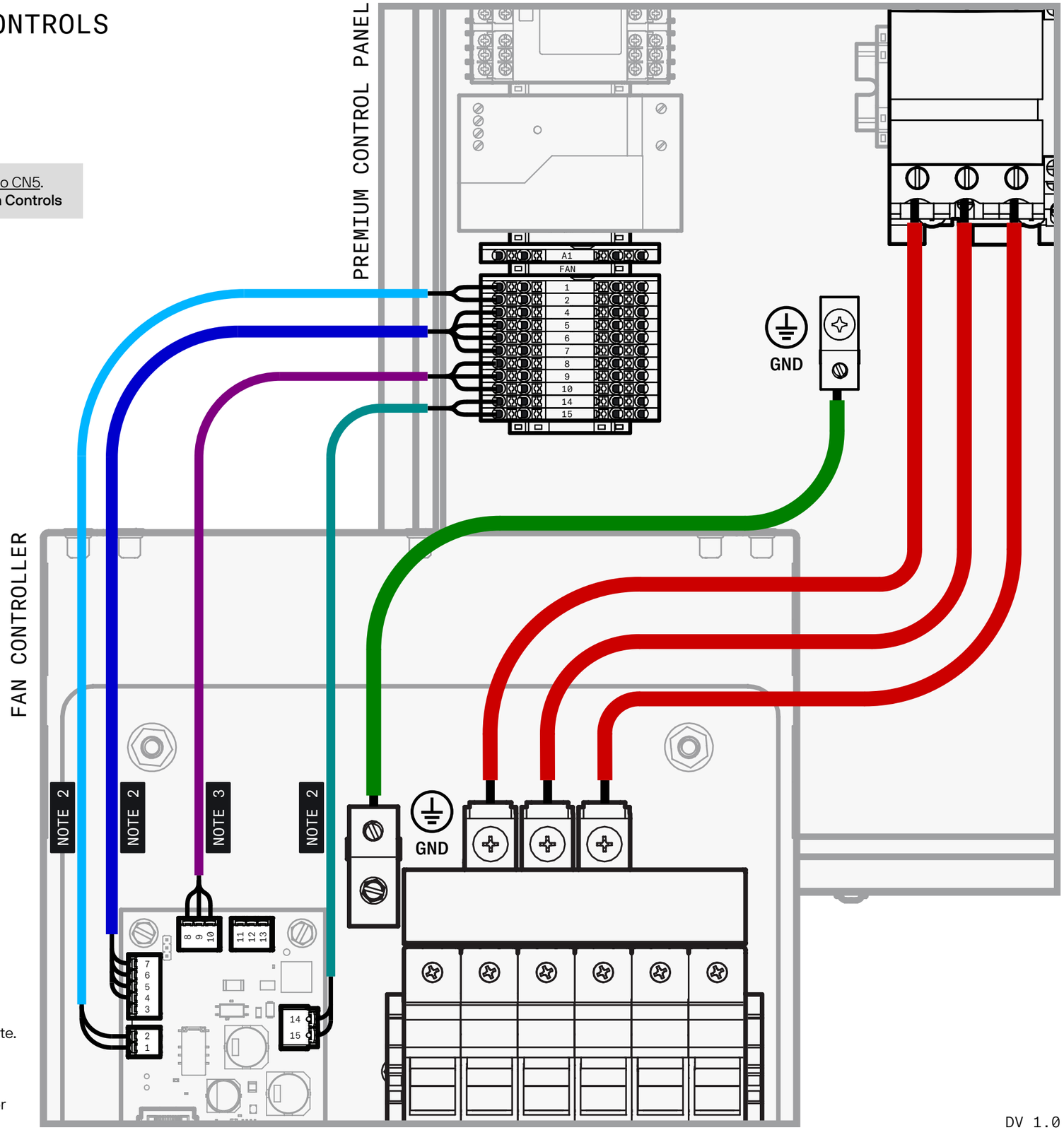


Q-PAC WIRING GUIDE FOR PREMIUM CONTROLS

FAN CONTROLLER CONNECTIONS

This page outlines the **Fan Controller Board** connections for the fan system. This fan does not connect to CN5.
For details on Fan Controller terminals or Modbus functions, check the **Q-PAC User Manual for Premium Controls**





NOTES:

1. Conductor size to be determined by NEC and Q-PAC Fan MCA as listed on the Fan Controller nameplate.
2. Min 24 AWG (stranded CU) to CN1, CN2, and CN3 terminals.
3. Min 24 AWG (stranded CU) shielded twisted pair to CN4 terminals.
4. All colored lines indicate wiring to be completed by others in the field.
5. Component drawing sizes and positions adjusted for clarity. Actual components may vary with vendor availability and lead time.