

# FAN WIRING GUIDE

## FOR PREMIUM CONTROL PANEL

### CONTROL PANEL CONNECTIONS

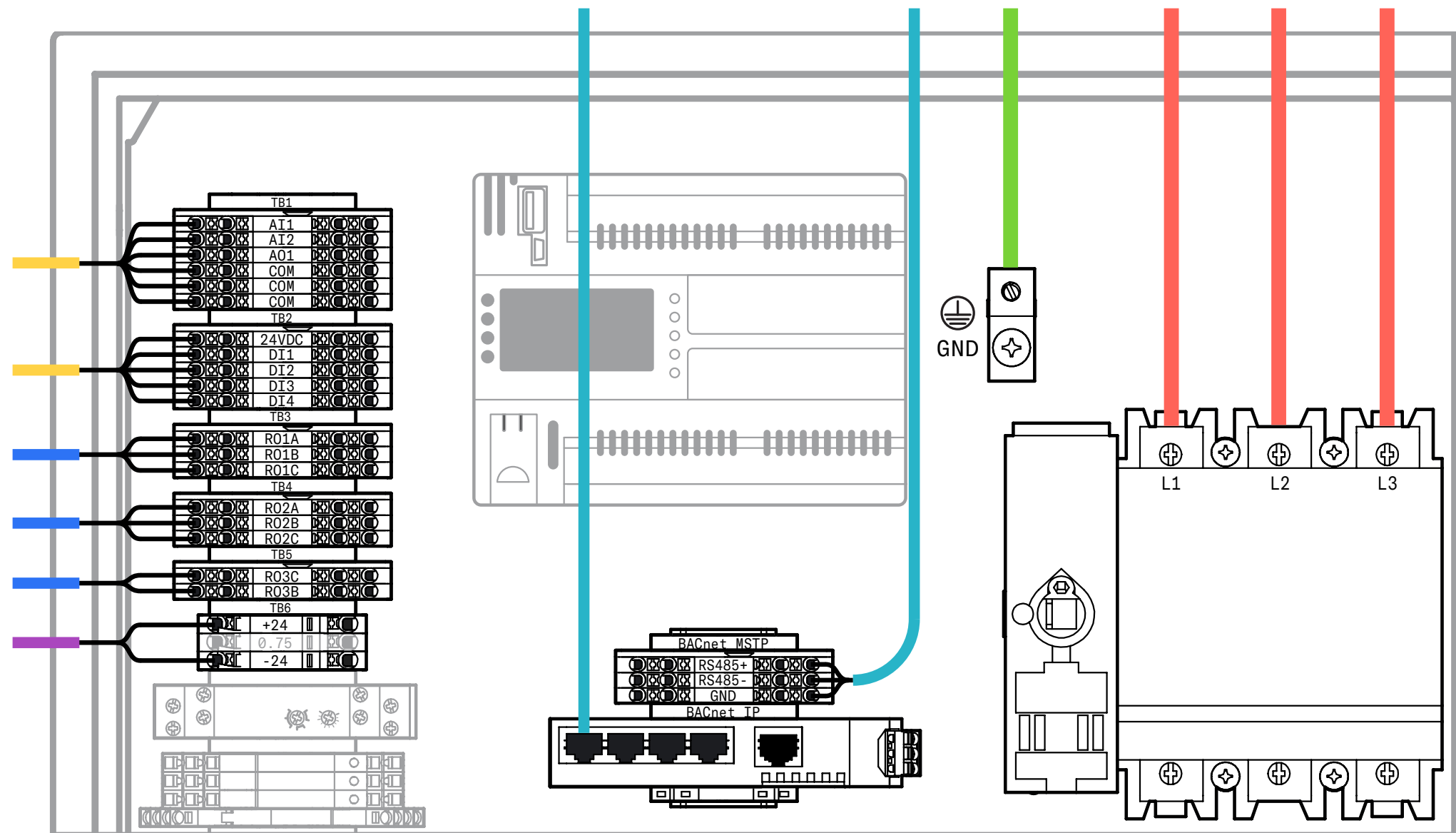
TB 1			REQ
AI1	Speed control, 0-10VDC	Analog Input	X
AI2	Static pressure sensor, 0-10VDC	Analog Input	
A01	Calculated airflow, 0-10VDC	Analog Output	
COM	Common for analog signals	Common	X
TB 2			
24VDC	Output for Digital Input controls (DI1 -DI4), 24VDC	Digital Output	X
DI1	Safety Circuit	Digital Input	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			
R01A	Ready/Operational (R01C -R01A connected)	Relay Output	
R01B	Not Ready/Operational (R01C -R01B connected)		
R01C	Max 230VAC/24VDC at max 1A current		
TB 4			
R02A	Running (R02C -R02A connected)	Relay Output	
R02B	Not Running (R02C -R02B connected)		
R02C	Max 230VAC/24VDC at max 1A current		
TB 5			
R03C	Normally open (unpowered) contact of the alarm relay. When the panel receives power, the contact closes to indicate the absence of an alarm. If a fault occurs, the contact will open again.	Relay Output	
R03B			
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; reserved for future use		Note 6
FUSED DISCONNECT SWITCH			
L1/L2/L3	3 Phase 208V or 480V input voltage, per Fan Controller Nameplate		X
GND	Earth ground		X

Use this 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 Premium User Manual.

#### 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 open-ended lines indicate wiring to be completed by others in the field.
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.

DV. 1.1



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### FAN CONTROLLER CONNECTIONS

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

**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 (CU) to CN1 and CN3 terminals.
3. Min 24 AWG (CU) Shielded Twisted Pair to CN6 terminals.
4. All drawn 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.

DV 1.1

FAN CONTROLLER	TO	CONTROL PANEL
CN1	A1	A1
	COM	COM
	K1A	N/A
	K1C	K1C
	K1B	K1B
	A2	A2
	COM	COM
	CN3	24V
	0V	0V
CN6	A	A
	B	B
	COM	COM

