Manuals+ — User Manuals Simplified.

COPELAND 8DO Digital Output Board Installation Guide

Contents

COPELAND
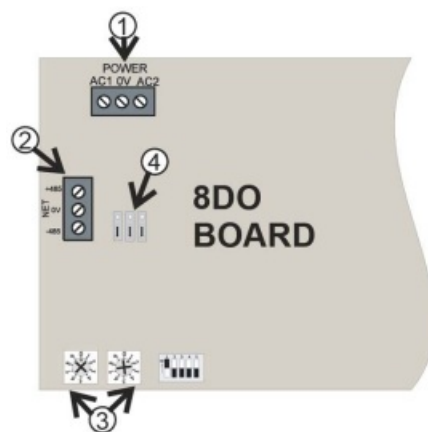
COPELAND 8DO Digital Output Board

Product Specifications

- Product Name: 8DO (Digital Output) Board
- Power Requirement: Connected to power transformer
- Network Connection: RS485 I/O Network
- Board Number Setting: Rotary dials S1 & S2
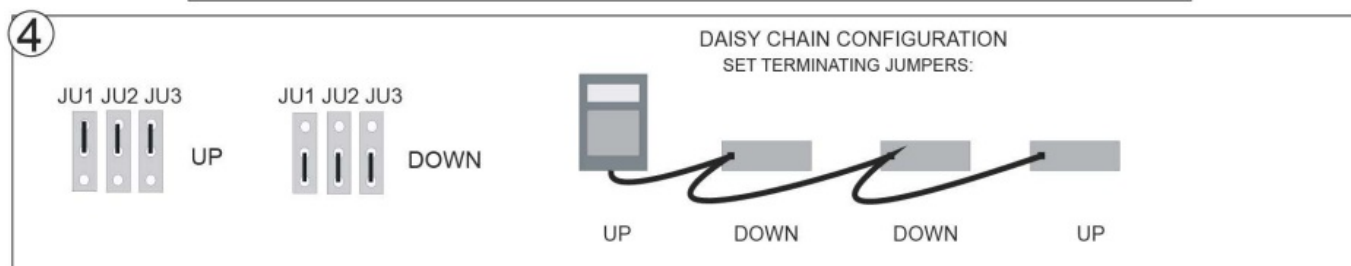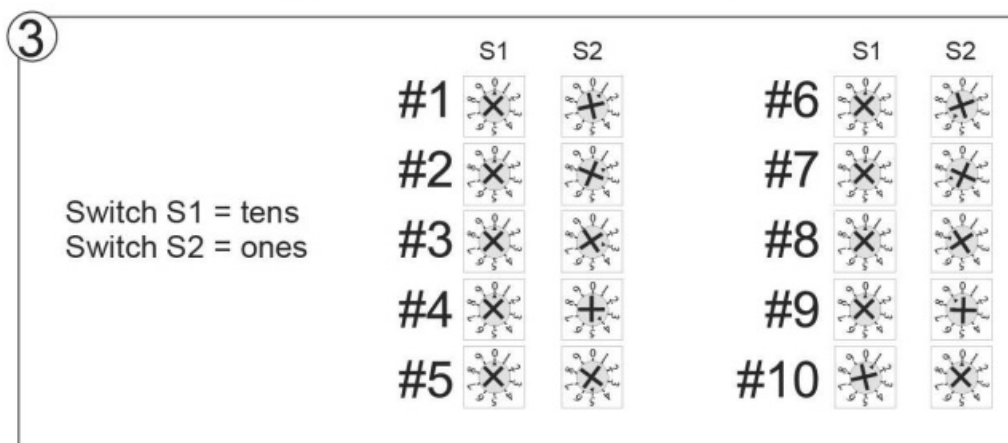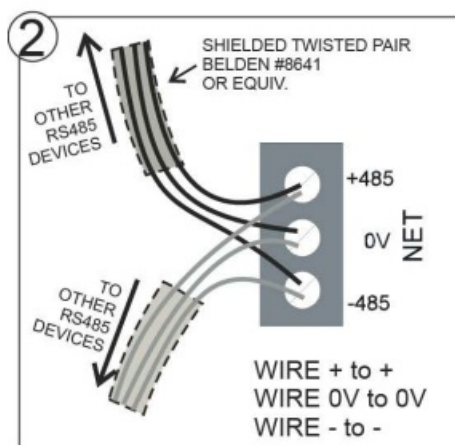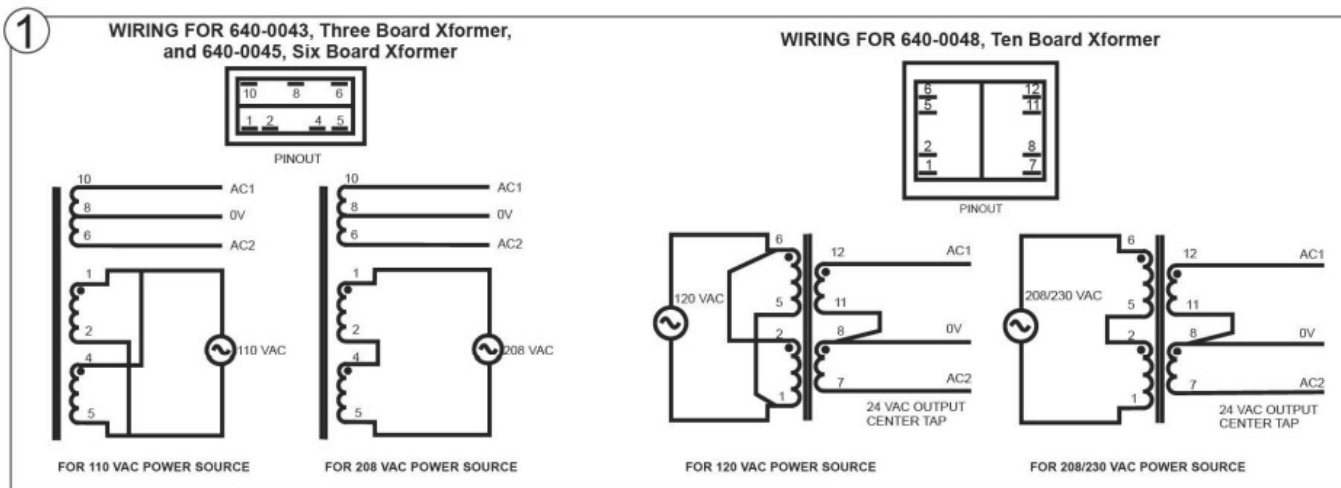- Termination Jumper Setting: RS485 termination jumpers

Product Usage Instructions

1. Connect the 8DO board to the power transformer.
2. Connect the 8DO board to the RS485 I/O Network.
3. Set the board number using rotary dials S1 & S2:
     - Use switch S1 for the tens portion of the board number.
     - Use switch S2 for the ones portion of the board number.
     - Example: To set the board as 8DO #1, set S1 to zero and S2 to one.
4. Set the RS485 termination jumpers:
     - If at either end of a daisy chain, set jumpers UP.
     - Otherwise, set jumpers DOWN.
5. **NOTE:** If you change any dip switch settings while the board is powered, disconnect the power and repower the board to reset.

- Connect board to power transformer.
- Connect 8DO to the RS485 I/O Network.
- Use the rotary dials S1 & S2 to set the board number. Use switch S1 to set the "tens" portion of the board number, and S2 as the "ones" portion of the board number. Example: to set the board as 8DO #1, set S1 to zero and S2 to one.
- Set RS485 termination jumpers UP if at either end of a daisy chain. Otherwise, set jumpers DOWN.

NOTE: If you change any dip switch settings while the board is powered, disconnect the power and repower the board to reset.

1 — WIRING FOR 640-0043, Three Board Xformer, and 640-0045, Six Board Xformer

PINOUT

| 10 | 8 | 6 |
| 1 | 2 | 4 | 5 |

For 110 VAC Power Source:
10 — AC1
8 — 0V
6 — AC2
110 VAC

FOR 110 VAC POWER SOURCE

For 208 VAC Power Source:
10 — AC1
8 — 0V
6 — AC2
208 VAC

FOR 208 VAC POWER SOURCE

WIRING FOR 640-0048, Ten Board Xformer

PINOUT

6	12
5	11
2	8
1	7

For 120 VAC Power Source:
120 VAC
12 — AC1
11
8 — 0V
7 — AC2
24 VAC OUTPUT CENTER TAP

FOR 120 VAC POWER SOURCE

For 208/230 VAC Power Source:
208/230 VAC
12 — AC1
11
8 — 0V
7 — AC2
24 VAC OUTPUT CENTER TAP

FOR 208/230 VAC POWER SOURCE

2

SHIELDED TWISTED PAIR BELDEN #8641 OR EQUIV.

TO OTHER RS485 DEVICES

TO OTHER RS485 DEVICES

+485
0V   NET
-485

WIRE + to +
WIRE 0V to 0V
WIRE - to -

3

Switch S1 = tens
Switch S2 = ones

	S1	S2		S1	S2
#1			#6		
#2			#7		
#3			#8		
#4			#9		
#5			#10		

4

JU1 JU2 JU3 UP

JU1 JU2 JU3 DOWN

DAISY CHAIN CONFIGURATION
SET TERMINATING JUMPERS:

UP   DOWN   DOWN   UP

NOTE: This sheet is intended for use as a quick reference only. All installation technicians should read the installation and operation manuals for complete information.

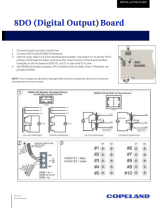- 026-2015 R1
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FAQs

Q: Where can I find complete installation and operation manuals?
A: Visit our website at **copeland.com/en-us/products/controls-monitoring-systems** for complete information.

Q: How can I get technical support?
A: For Technical Support, call **833-409-7505** or email **ColdChain.TechnicalServices@Copeland.com**

Documents / Resources

COPELAND 8DO Digital Output Board [pdf] Installation Guide
8DO Digital Output Board, 8DO, Digital Output Board, Output Board, Board

References

- **User Manual**