



COMPONENT SPECIFICATION

TITLE

Heating Blanket Relay Panel Assemblies

APPROVALS:	DATE	REV	DCN NO	BY	CHK	DCC	DATE
DRAWN: W. Althouse	1/30/98	A	E980007-00-W	n/a	n/a	n/a	n/a
CHECKED:							
APPROVED:							
DCC RELEASE:							

DESCRIPTION

Heating blanket temperature controller and power switching relay assemblies, connecting cords and junction boxes, including single-channel assembly H1 and multi-channel assemblies H2, H3, and H4, connecting cord set HC, and junction boxes HJ1 and HJ2.

REQUIREMENTS

- General:** Assemblies shall be fabricated in accordance with the drawings listed herein and shall be tested and ready for operation prior to delivery.
- UL Listing:** The final assemblies shall be UL listed.
- Materials:** All materials shall be new. Equipment items shall be UL approved. Substitutions for product types and manufacturers specified in the drawings must be approved by LIGO. Substitutions will be considered upon request and submission of appropriate product data.
- Wiring:**
- A. All conductors shall be installed in accordance with latest requirements of NEC. Conductor insulation shall be rated for 90 °C or greater.
 - B. Label each conductor as indicated on connection diagram with heat shrink type label (Panduit LS4H Heat Shrink Marking System or equal).
 - C. Install cable ties to neatly train and lace cables inside cabinets. Thermocouple conductors shall be routed in bundles separated from power and control conductors by at least 2 inches.
 - D. No more than two conductors shall be terminated at any one terminal location.
- Identification:** Each assembly shall be identified with an engraved phenolic label on the front panel carrying the marking "PANEL H1", "PANEL H2", "PANEL H3", "PANEL H4", as appropriate. Lettering shall be white on dark background and shall be 1/4" high.
- Nameplates:** Engraved phenolic nameplates shall be marked and installed as designated on drawings. Nameplate lettering shall be white on dark background.
- Testing:** Functional testing shall be performed to assure proper operation of each controller circuit and continuity of each connecting cord and junction box. A written test report shall be furnished with each assembly.
- Preparation for delivery:** Assemblies shall be packaged for shipping to prevent damage from vibration, shock and climatic condition.



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ASSEMBLY H1:

- D980021-A-W Heating Blanket Relay Panel Box 'H1' Assembly
- D980038-A-W Materials List - Assembly 'H1' Heating Blanket Relay Box
- D980023-A-W Heating Blanket Relay Panel Assembly 'H1' Schematic Diagram
- D980022-A-W Heating Blanket Relay Panel Assembly 'H1' Connection Diagram

SUBASSEMBLY H2-1:

- D980025-A-W Subassembly 'H2-1' -Heating Blanket Panel 'H2'
- D980040-A-W Materials List - Subassembly 'H2-1' Heating Blanket Relay Panel
- D980027-A-W Subassembly 'H2-1' Schematic Diagram
- D980026-A-W Subassembly 'H2-1' Connection Diagram
- D980091-A-W Controller Display and Equipment Connector Details

SUBASSEMBLY H3-1:

- D980029-A-W Subassembly 'H3-1' -Heating Blanket Panel 'H2'
- D980042-A-W Materials List - Subassembly 'H3-1' Heating Blanket Relay Panel
- D980031-A-W Subassembly 'H3-1' Schematic Diagram
- D980030-A-W Subassembly 'H3-1' Connection Diagram
- D980091-A-W Controller Display and Equipment Connector Details

SUBASSEMBLY H4-1:

- D980033-A-W Subassembly 'H4-1' -Heating Blanket Panel 'H2'
- D980044-A-W Materials List - Subassembly 'H4-1' Heating Blanket Relay Panel
- D980035-A-W Subassembly 'H4-1' Schematic Diagram
- D980034-A-W Subassembly 'H4-1' Connection Diagram
- D980091-A-W Controller Display and Equipment Connector Details

ASSEMBLY HC:

- D980036-A-W Heating Blanket Cord Set Assembly 'HC'
- D980045-A-W Materials List - Assembly 'HC' Heating Blanket Cord Set

ASSEMBLY HJ1:

- D980037-A-W 6-Way Heating Blanket Junction Box Assembly 'HJ1'
- D980046-A-W Materials List - Assembly 'HJ1' 6-Way Heating Blanket Junction Box

ASSEMBLY HJ2:

- D980092-A-W 2-Way Heating Blanket Junction Box Assembly 'HJ2'
- D980093-A-W Materials List - Assembly 'HJ2' 2-Way Heating Blanket Junction Box