FIELD WORKFLOW

Honeywell 51402797-200 51305319-100

LCNP Board Assembly

Honeywell 51402797-200 51305319-100 identifies an LCNP/GUS board assembly used to connect a GUS workstation with the Local Control Network in TDC 3000 and TPS environments.

Release-gate sequence

1. IDENTIFY
2. ISOLATE
3. INSTALL
4. STATIC CHECK
5. FUNCTION TEST
6. ACCEPT

Before work starts

- Confirm the complete Honeywell 51402797-200 51305319-100 identity before isolation.
- Record Complete identity: 51402797-200 51305319-100, Primary assembly: 51402797-200 LCNP board with guide, Associated board: 51305319-100 LCNP/GUS board.
- Photograph the cabinet position, connector orientation and all terminal identifiers.
- Capture the active configuration, channel assignments, alarm limits and dependent control functions.
- Place affected process equipment in the approved safe or manual condition.
- Prepare calibrated test equipment appropriate to the documented signal or interface type.

Field record essentials

MODEL ID

Record 51402797-200 51305319-100 exactly.

SYSTEM

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SETTINGS

Preserve the verified installed configuration.

TEST BASIS

Define static and functional acceptance evidence.

Pre-installation verification

CHECK 01

Confirm the complete Honeywell 51402797-200 51305319-100 identity before isolation.

CHECK 02

Record Complete identity: 51402797-200 51305319-100, Primary assembly: 51402797-200 LCNP board with guide, Associated board: 51305319-100 LCNP/GUS board.

CHECK 03

Photograph the cabinet position, connector orientation and all terminal identifiers.

CHECK 04

Capture the active configuration, channel assignments, alarm limits and dependent control functions.

CHECK 05

Place affected process equipment in the approved safe or manual condition.

CHECK 06

Prepare calibrated test equipment appropriate to the documented signal or interface type.

Interface inventory

- Host side: GUS workstation hardware
- Network side: Local Control Network
- Mechanical side: Board guide or bracket assembly
- Identity control: Both part numbers retained as one published model string

Hold point

Do not continue if the complete model, field-circuit identity, stored settings, protective functions or safe isolation state cannot be verified. Preserve existing wiring records and escalate the exact unresolved item.

Installation sequence

1. Match the replacement label to Honeywell 51402797-200 51305319-100 and the approved site bill of material.
2. Review the recorded wiring, channel map and connector orientation before disturbing conductors.
3. Isolate hazardous energy and prove the required electrical condition at the work point.
4. Apply grounded ESD controls while handling the electronic assembly.
5. Label and remove connectors or conductors without changing their established order.
6. Inspect terminals, pins, coating, guides and mounting hardware for damage or contamination.
7. Seat and secure the assembly without forcing connectors; restore wiring to the recorded positions.
8. Re-energize under an approved procedure and review hardware, channel and communication diagnostics.

Commissioning and acceptance

GATE 1

Verify the installed identity remains Honeywell 51402797-200 51305319-100 after energization.

GATE 2

Compare all restored channel or interface assignments with the approved engineering record.

GATE 3

Confirm correct hardware recognition, interface continuity and healthy status before returning the connected system to service.

GATE 4

Check alarm, diagnostic and fault responses without defeating any required protective function.

GATE 5

Confirm unaffected channels and neighboring assemblies continue to operate normally.

GATE 6

Review connector temperature, unusual odor, noise and visible indicators during the controlled test.

GATE 7

Record calibrated readings, software indications, status events and corrective actions.

GATE 8

Obtain the required operations or engineering acceptance before releasing the equipment.

Fault-response checks

- A recognition or communication fault requires checks of seating, connector condition, address or switch settings and dependent cabling.
- Intermittent behavior: inspect terminal torque, connector seating, shielding and vibration exposure.
- Wrong point response: reconcile the physical terminal, channel map and controller database.
- Persistent diagnostic: compare the as-left condition with the captured pre-maintenance baseline.
- Neighboring faults: inspect shared power, common connectors and card-file or backplane interfaces.
- Repeat failure: stop substitution and escalate the exact identity, evidence and test record for engineering review.

Acceptance boundary

Release only after the normal state, commanded state, principal fault state and recovery behavior have all been observed at the field device, module and control-system indication.

Reference and handover

SOURCE 1

Exact-model LCNP/GUS hardware identification records, cross-checked 2026-10-15

SOURCE 2

TDC 3000/TPS LCNP hardware requirements reference

Related products

Verified related products on ApterPower

Honeywell 51306975-175

Honeywell output termination reference

View Honeywell 51306975-175

Honeywell 10018/2/U

FSC system reference

View Honeywell 10018/2/U

Honeywell CC-PAIX01 51405038-275

Series C analog-input reference

View Honeywell CC-PAIX01 51405038-275

CONFIGURATION

Final settings and mappings archived

WIRING

Terminal and conductor labels reconciled

TEST RECORD

Measured results and fault tests retained

OPERATIONS

Normal indication and response briefed

Contact Apter Power

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Share the exact 51402797-200 51305319-100 nameplate, application and required quantity for a model-specific quotation.