General Electric 8617-FT-NI

Engineering Installation, Diagnostic and Acceptance Guide

GE 8617-FT-NI is the non-incendive PAC8000 field terminal used beneath a compatible 16-channel digital-input module. It provides the field-wiring landing and mechanical interface while the removable I/O module carries channel electronics.

01 Job scope and identity

Complete model	8617-FT-NI
Product type	non-incendive field terminal for digital input module
Manufacturer	General Electric
Technical source	PAC8000 Process I/O System Datasheet

Field decisions

1 Decode the offered identity

Record 8617-FT-NI and reconcile the selected mechanical, electrical and environmental fields before removal.

2 Preserve the installed reference

Use 8617-FT-NI at the documented PAC8000 16-channel digital-input position with the approved mating module and non-incendive wiring drawing.

3 Inspect the decisive interface

8617 FT-NI non-incendive base for a 16-channel digital-input position.

4 Prove the product-specific function

Verify terminal map, mating-module identity, contact condition and every digital-input state before returning the node to service.

5 Retain traceable evidence

Label, wiring photographs, module identity and test results.

Installation relationships

Terminal proof	Check numbering, screw condition, conductor retention and separation from adjacent circuits.
Compatibility proof	Record the mating I/O module article and carrier position.
Channel proof	Exercise each discrete input and compare field state, module indication and controller value.

Pre-work evidence

Verified field	Component role: Non-incendive field terminal
Verified field	Compatible I/O position: 16-channel digital input
Verified field	Mounting system: PAC8000 DIN-rail I/O carrier arrangement
Verified field	Module service feature: Hot swap supported by the PAC8000 family when site procedure permits
Verified field	Family operating temperature: -40 to +70 deg C
Verified field	Family shock withstand: 30 g

02 Pre-installation readiness

Model-specific installation decisions

Exact identity

8617-FT-NI and every delivered revision or approval marking must be recorded before removal.

Installed system

PAC8000 process I/O field-terminal family companion components, channel assignment and approved machine reference must remain traceable.

Mechanical baseline

Record the as-found mounting datum, reach, lock position, target clearance, routing and connector support.

Electrical baseline

Record the applicable stopped-machine gap, bias, continuity or channel value together with test conditions.

As-left configuration

Document the final mechanical position, cable protection, connector condition and complete companion-component identities.

Functional release

Compare the final monitor indication and controlled operating response with the approved baseline before handover.

Installation precautions

Do not treat the terminal as an I/O module

It contains the field interface; channel electronics and ratings belong to the mating module.

Verify exact module compatibility

Use the PAC8000 16-channel DI position documented for the FT-NI base.

Preserve channel labels

Record every conductor before disturbing the removable module or terminal block.

Apply area procedure

Non-incendive work still requires the approved hazardous-location method.

Inspect mating contacts

Reject bent, contaminated or heat-damaged contacts between module and base.

Control shield and common routing

Follow the cabinet drawing rather than inferring connections from adjacent terminal types.

Pre-installation release gates

Release gate	Do not treat the terminal as an I/O module: It contains the field interface; channel electronics and ratings belong to the mating module.
Release gate	Verify exact module compatibility: Use the PAC8000 16-channel DI position documented for the FT-NI base.
Release gate	Preserve channel labels: Record every conductor before disturbing the removable module or terminal block.
Release gate	Apply area procedure: Non-incendive work still requires the approved hazardous-location method.
Release gate	Inspect mating contacts: Reject bent, contaminated or heat-damaged contacts between module and base.
Release gate	Control shield and common routing: Follow the cabinet drawing rather than inferring connections from adjacent terminal types.

03 Installation and commissioning

Controlled installation sequence

01 PAC8000 digital-input marshalling	Land 16 discrete field circuits according to the exact channel and common arrangement.
02 Non-incendive Zone 2 node	Use only where the selected module, carrier and field wiring appear on the approved control drawing.
03 Module maintenance base	Retain field conductors while exchanging the compatible I/O electronics under the authorized procedure.
04 Remote process-I/O cabinet	Mount on the specified DIN-rail carrier with accessible channel labels and segregation.

Commissioning acceptance criteria

Acceptance point	Terminal proof: Check numbering, screw condition, conductor retention and separation from adjacent circuits.
Acceptance point	Compatibility proof: Record the mating I/O module article and carrier position.
Acceptance point	Channel proof: Exercise each discrete input and compare field state, module indication and controller value.

04 Diagnostics and escalation

What is 8617-FT-NI?	It is a PAC8000 non-incendive field terminal for a compatible 16-channel digital-input position.
Is 8617-FT-NI the digital-input electronics module?	No. It is the field-wiring base; the removable mating module contains the I/O electronics.
Where is 8617-FT-NI mounted?	It installs in the PAC8000 DIN-rail carrier arrangement at the documented I/O position.
Can 8617-FT-NI be used with any PAC8000 module?	No. Verify the exact 16-channel DI module and carrier compatibility.

Additional diagnostic decisions

Does 8617-FT-NI alone establish hazardous-area approval?	No. Approval depends on the complete system combination and approved wiring method.
What must be photographed on 8617-FT-NI?	Capture full marking, terminal numbering, conductor positions and mating contacts.

Can the mating module above 8617-FT-NI be hot-swapped?	PAC8000 supports hot swap in the family, but only under the site-approved area and maintenance procedure.
How is 8617-FT-NI accepted after wiring?	Exercise all 16 inputs and reconcile terminal state, module indication and controller value.

05 Handover and evidence package

Model-specific handover evidence

Evidence source	Log the revision of PAC8000 Process I/O System Datasheet used for the release review.
Applicability record	State how the delivered marking satisfies this boundary: The PAC8000 literature identifies 8617-FT-NI as a non-incendive field terminal for the 16-channel digital-input position; module electrical values are stated only as compatible-module context, not as terminal ratings.
Installed-system record	Photograph and identify the interfaces needed to apply this decision: Use 8617-FT-NI at the documented PAC8000 16-channel digital-input position with the approved mating module and non-incendive wiring drawing.
Functional acceptance	Attach measured results showing that the team completed this proof: Verify terminal map, mating-module identity, contact condition and every digital-input state before returning the node to service.

Model-specific application limits

Component identity	FT-NI field terminal for 16-channel digital input.
System dependency	Compatible PAC8000 module, carrier and area drawing.
Acceptance focus	Terminal map, mating contacts and 16-point state proof.
Handover evidence	Label, wiring photographs, module identity and test results.

Selected engineering values

Mounting system	PAC8000 DIN-rail I/O carrier arrangement
Module service feature	Hot swap supported by the PAC8000 family when site procedure permits
Family operating temperature	-40 to +70 deg C
Family shock withstand	30 g
Family vibration withstand	5 g
Family area context	Class I Division 2 / Zone 2 system options

Verified related product references

Related product	General Electric DS200DSPCH1AEA
Related product	General Electric IS220PTURH1A
Related product	General Electric 531X133PRUALG1
Related product	General Electric IS420ESWBH3AX

Engineering contact

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