Emerson 8626-FT-IS

Technical Reference

01 Exact identity and system role

Emerson 8626-FT-IS is an intrinsically safe RTD field terminal for the PAC8000 8206-TI-IS eight-channel temperature-input module. It provides the field-wiring interface for two-, three- and four-wire RTD circuits.

Full reference	Emerson 8626-FT-IS
Document role	Apter Power technical reference
Installed system	PAC8000 / 8206-TI-IS RTD input
Evidence scope	The order table names 8626-FT-IS as the IS RTD terminal; the wiring diagrams and certificate limits apply to this exact terminal.

Functional position

This field terminal joins RTD sensor wiring to an intrinsically safe PAC8000 temperature-input channel; measurement conversion belongs to the paired 8206-TI-IS module.

02 Interface and signal architecture

The 8626-FT-IS is the RTD-specific terminal in the PAC8000 field-terminal range. Emerson lists the 8206-TI-IS as an eight-channel intrinsically safe RTD input, and the terminal wiring sheet provides separate two-, three- and four-wire RTD diagrams. Select the diagram for the installed sensor and cable, then verify each conductor at the terminal strip and module connector.

The intrinsically safe assembly uses mechanical key position C/3 for the 8206-TI-IS pairing. The terminal has module-side multipin connectors, screw-clamp field connections and an identification strip. Its blue moulding identifies IS field wiring; a field terminal alone does not establish the whole loop certificate or replace the module, carrier and power arrangement.

Product role	Intrinsically safe RTD field terminal
Matched I/O module	8206-TI-IS, eight-channel RTD input
RTD wiring	Two-, three- or four-wire diagrams
Field-terminal key	C / 3 with 8206-TI-IS
Connector arrangement	Two multipin module connectors
Field termination	Screw-clamp terminal rows

03 Technical data and configuration limits

Terminal voltage limit	30 V maximum, certificate condition
Terminal input-power limit	0.9 W maximum, certificate condition
Field wiring location	Zone 0 IIC or Class I Div 1 when approved as an assembly
Terminal body	Blue moulding for IS field wiring
Tagging strip	Present on screw-clamp terminal
Material	Modified poly-phenylene oxide

Engineering boundary

IECEx BAS 12.0023U limits terminal input/output voltage to 30 V and 8626-FT-IS input power to 0.9 W. The certificate also calls for consideration of segregation at 30 V when assessing combined assembly output parameters. Carry the applicable control drawing, sensor entity parameters and area classification through the installation review.

04 Supported application patterns

Use case	Documented relationship
Two-wire RTD	Use the terminal sheet's two-wire connection diagram when the installed sensor and input configuration require a two-lead RTD.
Three-wire RTD	Route the compensation conductor according to the dedicated three-wire diagram and verify the corresponding channel configuration.
Four-wire RTD	Terminate separate excitation and sense conductors using the four-wire diagram for the selected RTD channel.
Module replacement	Retain the 8206-TI-IS pairing and C/3 key relationship when exchanging a field terminal in a PAC8000 IS assembly.

Commissioning relevance

Use the RTD terminal wiring diagram and the approved intrinsic-safety assembly for the selected two-, three- or four-wire sensor.

05 Engineering questions and source record

Exact-model question	Evidence-led answer
Which input module is paired with Emerson 8626-FT-IS?	The listed pairing is the 8206-TI-IS intrinsically safe eight-channel RTD input module.
Which sensor wiring forms are documented for Emerson 8626-FT-IS?	The field-terminal sheet shows distinct two-, three- and four-wire RTD connection diagrams.
What mechanical key position applies to Emerson 8626-FT-IS?	The approved 8206-TI-IS pairing uses field-terminal key position C/3.
What is the terminal voltage limit for Emerson 8626-FT-IS?	IECEx BAS 12.0023U limits the terminal input/output voltage to 30 V; assess the complete loop.

Technical source

Emerson PAC8000 Remote I/O, 00813-0100-0108, February 2022; MTL Field terminals, January 2007; IECEx BAS 12.0023U

Discuss the complete reference

Emerson 8626-FT-IS

sales13@apterpower.com | +86 18030235313