GE IS420YAICS1B

Functional Safety Analog Input/Output Pack

Documented product data

Analog inputs	10
Analog outputs	2
AI 1–8 voltage ranges	1 to 5 V DC; ±5 V DC; ±10 V DC
AI 1–8 current range	0 to 20 mA
AI 9–10 current ranges	0 to 20 mA; ±1 mA
Input conversion	16 bit
Output conversion	14 bit
Output current range	0 to 20 mA
Maximum output load	800 Ω
Pack control power	28 V DC; 8 W
Additional sensor-power allowance	Up to 7 W
Supported controller I/O scan rates	10 / 40 / 80 / 160 ms
Operating ambient temperature	-40 to +70 °C
Storage temperature	-40 to +85 °C

Data apply to the IS420YAICS1B pack with the documented STAIS2A or TBAIS1C terminal-board assembly. Terminal style, field-wire capacity, loop powering and redundancy depend on the selected terminal board. Module certification does not establish the SIL of an unverified installation.

Terminal-board relationship

STAIS2A is the compact simplex option. TBAIS1C supports one or three YAIC packs with the documented simplex/TMR arrangements.

Input and output interpretation

Voltage and current ranges belong to their specified channel groups. Resolution is not an accuracy statement, and scan configuration must follow the supported controller settings.

Redundant diagnostics

Median input selection and output contribution monitoring are system acceptance functions. A valid final value alone does not prove all redundant paths.

Technical basis

GE Power Mark VIeS Functional Safety System Technical Specifications GFT-870

Related GE product references

Separate supply references; these links do not establish interchangeability.

GE DS3800NGDC1A1A
Ground Detector Module

GE DS3800NGDD1C1B
Field Ground Detector Card

GE IS400AEBMH1AJD
Alternative Energy Bridge Module

GE IS220PPROH1A
Emergency Turbine Protection I/O Pack

GE SF412024 517-0224-16A-504376 820-0297
Circuit Board Assembly

GE 46-288512G1-F
Gantry I/O Board

GE IS200EPSMG1ADC
Exciter Control Power Supply Module

GE IS200EPSMG1AEC
Exciter Auxiliary and Control Power Supply Module

GE IS200TRLYH1BHH
Relay Output Terminal Board

GE IS200TSVCH2AJE
Servo Control Terminal Board

Discuss IS420YAICS1B and its installed application with Apter Power.
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