Specifications

1794-ASB Series E Specifications	
Note: This adapter cannot be used with PLC-2 processors This adapter can communicate with FLEX Integra analog modules and 32–point FLEX modules.	
I/O Capacity	8 modules
Power Supply	**Note:** In order to comply with CE Low Voltage Directives, you must use a Safety Extra Low Voltage (SELV) or a Protected Extra Low Voltage (PELV) power supply to power this adapter.
Input Voltage Rating	24V dc nominal
Input Voltage Range	11.0V to 31.2V dc (includes 5% ac ripple)
Communication Rate	57.6k bps 115.2k bps 230.4k bps
Indicators	Power – green Adapter Active – green Adapter fault – red Local fault – red
Flexbus Output Current	640mA maximum
Isolation Voltage	500V ac between user power and flexbus
Power Consumption	330mA at 24V; 730mA at 12V
Power Dissipation	4.6W maximum @ 31.2V dc
Thermal Dissipation	15.7 BTU/hr @ 31.2V dc
Environmental Conditions	
Operating Temperature	IEC 60068–2–1 (Test Ad, Operating Cold) IEC 60068–2–2 (Test Bd, Operating Dry Heat) IEC 60068–2–14 (Test Nb, Operating Thermal Shock) 32 to 131°F (0 to 55°C)
Storage Temperature	IEC 60068–2–1 (Test Ab, Unpackaged, Nonoperating Cold) IEC 60068–2–2 (Test Bb, Unpackaged, Nonoperating Dry Heat) IEC 60068–2–14 (Test Na, Unpackaged, Nonoperating Thermal Shock) –40 to 185°F (–40 to 85°C)
Relative Humidity	IEC 60068–2–30 (Test Db, Unpackaged, Nonoperating Damp Heat) 5 to 95%, noncondensing
Shock Operating Nonoperating	IEC 60068–2–27 (Test Ea, Unpackaged Shock) 30g 50g
Vibration	IEC 60068–2–6 (Test Fc, Operating) 5g @ 10–500Hz
ESD Immunity	IEC 61000–4–2 4kV contact discharges 8kV air discharges
Radiated RF Immunity	IEC 61000–4–3 10V/m with 1kHz sine–wave 80% AM from 30MHz to 2000MHz
EFT/B Immunity	IEC 61000–4–4 +4kV @ 2.5kHz on power ports ±2kV @ 5kHz on communications ports

Specifications continued on next page

1794-ASB Series E Specifications	
Surge Transient Immunity	IEC 61000–4–5 ±1kV line–line (DM) and ±2kV line–earth (CM) on signal ports
Conducted RF Immunity	IEC 61000–4–6 10V rms with 1kHz sine wave 80% AM from 150kHz to 80MHz
Emissions	CISPR 11 Group 1, Class A (with appropriate enclosure)
Enclosure Type Rating	None (open–style)
Remote I/O Cable	Belden 9463 or equivalent as specified in publication ICCG-2.2
Remote I/O Connector Plug	Part Number 942029–03
Power Conductors Wire Size Category	 12 gauge (4mm^2) maximum sokid or stranded wire rated at 75°C or greater 3/64 inch (1.2mm) insulation max. 2[1]
Agency Certification (when product is marked)	UL UL Listed Industrial Control Equipment UL UL Listed for Class I, Division 2 Group A, B, C and D Hazardous Locations CSA CSA Certified Process Control Equipment for Class I, Division 2 Group A, B, C, D Hazardous Locations EEx[2] European Union 94/9/EEC ATEX Directive, compliant with EN 50021; Potentially Explosive Atmospheres, Protection “n” CE[2] European Union 89/336/EEC EMC Directive, compliant with: EN 50081–2, Industrial Emissions; EN 50082–2, Industrial Immunity; EN 61326, Meas./Control/Lab., Industrial Requirements; EN 61000–6–2, Industrial Immunity C–Tick[2] Australian Radiocommunications Act,compliant with: AS/NZS 2064, Industrial Emissions
Publications	Installation Instructions 1794–IN046

1 Use this conductor category information for planning conductor routing. Refer to publication 1770-4.1, “Industrial Automation Wiring and Grounding Guidelines.”

2 See the Product Certification link at www.ab.com for Declarations of Conformity, Certificates and other certification details