

## Specifications

Characteristic	Value
Operational 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): 0 to 60°C (32 to 140°F) It is acceptable for the ambient slot temperature immediately surrounding this product to reach 85°C (185°F) maximum
Storage Temperature	IEC 60068-2-1 (Test Ab, Un-packaged Non-operating Cold), IEC 60068-2-2 (Test Bb, Un-packaged Non-operating Dry Heat), IEC 60068-2-14 (Test Na, Un-packaged Non-operating Thermal Shock): -40 to 85°C (-40 to 185°F)
Relative Humidity	IEC 60068-2-30 (Test Db, Un-packaged Non-operating Damp Heat): 5 to 95% non-condensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5g @ 10-500Hz
Operating Shock	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30g
Non-Operating Shock	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50g
Emissions	CISPR 11: Group 1, Class A
ESD Immunity	IEC 61000-4-2: 6kV contact discharges 8kV air discharges
Radiated RF Immunity	IEC 61000-4-3: 10V/m with 1kHz sine-wave 80%AM from 30MHz to 1000MHz 10V/m with 200Hz 50% Pulse 100%AM at 900Mhz
EFT/B Immunity	IEC 61000-4-4: ±4kV at 2.5kHz on communications ports
Surge Transient Immunity	IEC 61000-4-5: ±2kV line-earth(CM) on shielded ports
Conducted RF Immunity	IEC 61000-4-6: 10Vrms with 1kHz sine-wave 80%AM from 150kHz to 80MHz
Enclosure Type Rating	None (open-style)
Power Requirements <sup>(1)</sup> 1788-CNC 1788-CNCR	5V dc @ 450 mA (maximum) 5V dc @ 475 mA (maximum)
Power Consumption 1788-CNC 1788-CNCR	2.25 watts 2.375 watts
Power Dissipation 1788-CNC 1788-CNCR	2.25 watts or 7.68 BTU/hour 2.375 watts or 8.1 BTU/hour
Wiring Category <sup>(2)</sup>	2 - on communications ports

Weight 1788-CNC, 1788-CNCR	0.1 Kg (0.2 lb)
Agency Certification (when product is marked)	<p><b>c-UR-us:</b> UL Recognized Component Industrial Control Equipment, certified for US and Canada</p> <p><b>c-UR-us:</b> UL Recognized Component Industrial Control Equipment for Class I, Division 2, Group A,B,C,D Hazardous Locations, certified for US and Canada</p> <p><b>CSA:</b> CSA Certified Process Control Equipment</p> <p><b>CSA:</b> CSA Certified Process Control Equipment for Class I, Division 2, Group A,B,C,D Hazardous Locations</p> <p><b>CE</b><sup>(3)</sup>: European Union 89/336/EEC EMC Directive, compliant with:  EN 50082-2; Industrial Immunity  EN 61326; Meas./Control/Lab., Industrial Requirements  EN 61000-6-2; Industrial Immunity  EN 61000-6-4; Industrial Emissions</p> <p><b>C-Tick</b><sup>(3)</sup>: Australian Radiocommunications Act, compliant with:  AS/NZS CISPR 11; Industrial Emissions</p> <p><b>Ex</b><sup>(3)</sup>: European Union 94/9/EC ATEX Directive, compliant with:  EN 50021; Potentially Explosive Atmospheres, Protection "n" (Zone 2)</p> <p><b>CI:</b> ControlNet International conformance tested to ControlNet specifications</p>

- (1) To comply with UL and CSA restrictions, this equipment must be powered from a source compliant with the following: Class 2 or Limited Voltage/Current, as defined in UL 508 Seventeenth Edition Section 32; and Separated Extra-Low-Voltage (SELV), as defined in CSA C22.2 No 1010, Annex H.
- (2) Use this Conductor Category information for planning conductor routing. Refer to Publication 1770-4.1, "Industrial Automation Wiring and Grounding Guidelines".
- (3) See the Product Certification link at [www.ab.com](http://www.ab.com) for Declarations of Conformity, Certificates, and other certification details.