

Specifications | 8200 Controller

Processor and I/O (Panel Mounted)

Operating temperature: 0 to 130°F (-17 to 55°C)
Approvals: CE, CSA, UL, CUL
Power supply - Voltage: 85 to 264 VAC
Power Supply - Current: 0.3 A at 120 VAC (0.15 A at 240 VAC)
Line Frequency: 50/60 Hz
Power Dissipation: 18.5 W
Built in 24VDC Power Supply: 400mA Max (not for customer use)
Dimensions: 9.75" x 4.57" x 3" (248 x 116 x 75 mm)
Profinet Port Address: 10.1.220.198

Operator Interface Terminal (Door Mounted)

Operating Temperature: 32 to 122°F (0 to 50°C)
Enclosure Type 4X (Indoor use only)
Approvals: CE, CSA, UL, CUL Listed 74D7
Power Supply Voltage: 24 VDC (19.2 to 28.8 VDC)
Power Supply Current: 0.44 A
Dimensions - Front Panel: 8.424" x 6.22" (214 x 158 mm)
Dimensions - Panel Cutout: 7.756" x 5.551" (197 x 141 mm)
Display: 7" Touch screen with 8 pushbuttons
Profinet Port Address: 10.1.220.199

Thermocouple Inputs (Quantity 3)

Range: Available type selection and the corresponding ranges are listed below:

T/C Type	T/C Range (°F)	T/C Range (°C)
J	-100 - 1400	-73 - 760
K	-100 - 2500	-73 - 1371
N	-100 - 2372	-73 - 1300
R	0 - 3214	-18 - 1768
S	0 - 3214	-18 - 1768

Digital Inputs (Quantity 11)

Voltage: 24 VDC
Current: 4 mA nominal

Digital Outputs (Quantity 7)

Type: Relay, Dry Contact
Voltage: 5 to 30 VDC or 5 to 250 VAC
Current: 2.0 A max

Analog Inputs - Current (Quantity 8)

Range: 0 to 20 mA
Impedance: 250 ohm
Max Voltage: +/-35 VDC
Max Current: +/-40 mA
Cable Length: 100 meters twisted and shielded

Analog Outputs (Quantity 4)

Range: 0 to 20 mA
Load Impedance: <600 ohms
Cable Length: 100 meters twisted and shielded

Control Valve Actuators

Modulating Accuracy: Minimum 160 repositions through 90 degrees of travel are recommended (North American 1615 series or similar).

Note: Low accuracy actuators will likely produce large flow variations and continuous hunting. Models with 55 repositions through 90 degrees of travel are not recommended.

External 24 VDC Power Supply (Required)

Power Supply - Voltage: 19.2 to 28.8 VDC
Power Supply - Current: 0.64 Amp (minimum for 8200)

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Components in combustion systems may exceed 160°F (71°C) surface temperatures and present hot surface contact hazard. Fives North American Combustion, Inc. suggests the use of combustion systems that are in compliance with all Safety Codes, Standards, Regulations and Directives; and care in operation.

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