

SPECIFICATIONS

Power

- Supply Voltage 24 VDC (22 to 28 VDC)
- Power Consumption 75 W maximum, 40 W typical

Processor*

- System Memory 1 GB RAM
- Data Memory 60 GB HD minimum
- Ethernet 1 or 2 (see chart)
- USB 2 or 4 (see chart)
- RS232 1
- Monitor SVGA Connector
- Keyboard/Mouse PS2

General

- Operating Temperature 5 to 45 °C
- Environment NEMA 12 (IP 52) Model 12xx only
- Paint Finish Black backed powder

Analog Input

- Number of Channels 2, 4 and 8 Channel
- Input Ranges See model chart
- Input Accuracy $\pm 0.02\%$ for ± 1 V range and greater; $\pm 0.05\%$ for ranges less than 1 V
- Resolution 16 bit A/D, $\pm 32,768$ counts
- Maximum Sample Rate 250 kHz (1 MHz Model 15xx)
- Input Impedance 10 G Ω in parallel with 100 pF (820 Ω no power)
- Small signal bandwidth 1.7 MHz (Model 15xx)
700 kHz (Model 14xx)
20 kHz (Model 12xx)
- Cross talk 75 dB adjacent channels,
90 dB non-adjacent channels
- CMRR (DC to 60 Hz) 75 dB (Model 12xx)
92 dB (Model 14xx)
100 dB (Model 15xx)
- Overload protection ± 25 V for up to two channels powered and ± 15 V when off.

Analog Excitation

- Excitation Voltage +10 VDC
- Maximum Current 100 mA per channel
- Accuracy $\pm 0.1\%$
- Maximum Noise 100 μ V
- Short Circuit Protection Continuous

Encoder Input

- Number of Channels See model chart
- Sensors Rotary encoders and linear scales
- Input Voltage 5 V TTL or OC (Open Collector)
- Signal Type Quadrature or Single Phase
- Max Input Frequency 10 MHz TTL, 50 kHz Open Collector
- Counter 32 bit ($\pm 2 \times 10^9$ counts)
- Input Protection +24 V or -18 V without damage
- Sensor Power +5 VDC @ 150 mA, current limited

Digital Inputs

- Number of Channels 8 with common return line
- Polarity Bidirectional
- Isolation Voltage ± 120 V (Optically isolated)
- Input current less than 2.3 mA
- Input for low state 8 VDC maximum
- Input for high state 16 VDC minimum
- Maximum input Voltage ± 48 V
- Switching speed 2 msec

Digital Outputs

- Number of Channels 8 with common return line
- Polarity Bidirectional
- Isolation Voltage 120 V (Optically isolated)
- Switching Capability ± 1 A @ ± 48 VDC or VAC peak
- Contact Resistance > 100 M Ω off; < 0.5 Ω on
- Power On State All Off
- Switching speed 8 msec

Analog Outputs

- Number of Channels 2 depending on model
- Resolution 16 bits
- Accuracy 0.02 %
- Output Range ± 10 V
- Output Impedance 0.2 Ω
- Output Drive Current ± 5 mA
- Protection ± 25 V
- Power On State ± 5 mV
- Power On Glitch 1.5 V for 1.5 S



* The exact processor type and speed, memory supplied and other technical specifications are subject to change without notice. Please contact Sciometric for latest specifications.

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