

Configuration Number: BASE CONFIG
8519R-32



(full size images available on web site)



- Complete RS-232 Data Acquisition System
- 32 differential inputs - Expandable
- Voltage accepts $\pm 15\text{mV}$, $\pm 50\text{mV}$, $\pm 100\text{mV}$, $\pm 150\text{mV}$, $\pm 500\text{mV}$, $\pm 1\text{V}$, $\pm 2.5\text{V}$, $\pm 5\text{V}$, $\pm 10\text{V}$, $\pm 20\text{mA}$ (Jumper Selectable)
- Thermocouple accepts Type J, K, T, E, R, S, B, N, C, L, M, L2
- 16-bit Resolution
- 8 samples/second Sampling Rate (Total)
- Individual Channel Configurable
- Wire Opening Detection for Thermocouple
- Overvoltage Voltage Protection of $\pm 240\text{Vrms}$
- Expandable with Optional 8000 Series Modules
- Ready-to-Run System Includes:
 - 8520 for direct RS-232
 - 4 x 8019R (prewired)
 - RS-232 Cable
 - Power Supply
- Includes CD with user Manuals, Visual Basic Examples, Drivers for DASyLab, Compatible with TestPoint, Software Utilities, and WINview CP 2012, LINUX driver available upon request
- **WINview is compatible with Windows XP SP3, Windows Vista and Windows 7 32-bit and 64-bit Operating Systems**

Technical Specifications

Hardware Specifications:

- Analog Input:
 - Input Channels: Each Module (4 total) offers: 8 differential
 - Input type : +/-15mV, +/-50mV, +/-100mV, +/-150mV, +/-500mV, +/-1V, +/-2.5V, +/-5V, +/- 10V, +/-20mA (Jumper Selectable)
 - Resolution: 16 bit
 - Sampling Rate of Module: 8 Samples/1 Second
 - Accuracy: $\pm 0.1\%$
 - Bandwidth: 5.24Hz
 - Zero Drift: +/- 0.5uV/°C
 - Span Drift: $\pm 25\text{ppm}/^\circ\text{C}$
 - Common Mode Rejection @50/60Hz: 86dB min
 - Normal Mode Rejection @ 50/60Hz: 100dB
 - Input Impedance: Voltage Input >2M ohm, Current Input: 125 ohm
 - Over Voltage Protection: 240 Vrms
 - Open Thermocouple Detection: Yes
 - Individual Channel Configuration : Yes
 - ESD Protection: +/-4kV (Contact for each channel)
 - Intra-Module Isolation: 3000VDC
- Interface:
 - RS-485
 - Format: N,8,1
 - Baud Rate: 1200 ~ 115200 bps
 - Connections: Terminal blocks (accepts 16-22 AWG wires)
- LED Display:
 - 1 LED as Power/Communication Indicator
- Power:
 - Input Voltage Range: +10 to +30V DC
 - Power Consumption: 1.2W
- Environment:
 - Operating Temperature: -13 to 167°F (-25 to 75°C)
 - Storage Temperature: -40 to 185°F (-40 to 85°C)
 - Humidity: 5 to 95% RH, non-condensing

Software Specifications:

- Hardware Requirements:
 - One 8000 Series Analog Input Module Connected via USB or RS232
 - 512MB RAM
 - 6MB Hard Disk Space (For WINview CP 2012 Only - Additional Space Required for Data Storage and/or .NET Framework)
- Software Requirements
 - Windows XP (Service Pack 3), Windows Vista or Windows 7 (32-bit or 64-bit)
 - Microsoft .NET Framework Version 4.0 or Higher
 - 1024 x 768 Resolution or Higher
 - Requires Administrator User Privileges
- General Software Specifications:

- Maximum Number of Inputs:
 - Number and Type of Channels Determined by Module Used
- Supported Signal Types:
 - All Analog Input Types:
 - Volts, mV, mA, Thermocouple, RTD, Strain Gauge, etc.
- Ease of Use:
 - Very Easy, No Learning Curve, No Programming, No Manual Needed
- Speed of Acquisition:
 - Maximum: 10 Hz (May be Limited by Hardware)
 - Minimum: None
- Duration of Acquisition:
 - Finite (Specify Number of Points to Collect)
 - Continuous (Collects Until Stopped by User)
- Data Storage:
 - Stream Data to Disk as ASCII Text (Tab Delimited)
 - Stream Data to Disk as ASCII Text with Time/Date Stamp Options (Tab Delimited)
 - Easily Import into Microsoft Excel
- Settings Retrieval
 - All User Settings May Be Saved to a File for Later Use
 - Selectable Auto-Load of Specified Settings File
- Math Formulas Per Channel:
 - Yes
 - Supports the Following Math Functions: +, -, *, /, (), sin, cos, tan, ^, ln, sqr, exp
- Real-Time Display:
 - Yes, Selectable Graphing Options
- Graph Specifications:
 - Display:
 - Time vs. Y
 - Multiple Channels per Graph
 - Digital Readout of Each Channel
 - Strip-Chart Mode
 - User Selectable Graph Type (Line, Bar, Pie, etc.)
 - X-Axis:
 - Samples, Seconds, Minutes, Hours, Days
 - Supports Auto-Scaling
 - Y-Axis:
 - User-Defineable
 - Supports Auto-Scaling
 - Graph Functions:
 - Print Graph Image
 - Save Graph Image
 - Zoom Graph Image
 - Copy Graph Image to Clipboard
 - Trigger Type:
 - Software Push Button



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www.superlogics.com
Phone: 1-508-650-9500

sales@superlogics.com
Fax: 1-508-650-9525