



WebView I/O Communications Interface

BENEFITS

- Provides Ethernet
 Connection for WebView
 Modules
- Will Interface with up to 32
 WebView Signal
 Conditioning Modules via
 an IR Bus
- Contains a Web Server & Java Applet
- No Programming Required
- Battery Backed-up Data

DESCRIPTION

The model WVC16 is the heart of the WebView I/O System. While the WebView Signal Conditioners and Limit Alarms are the most advanced modules offered by Action Instruments, the WVC16 WebView Communications Interface adds functionality never before found in a signal conditioning system. The WVC16 interfaces with the WebView devices via an internal infrared communications link (no user programming required) and provides the ability to connect up to 32 modules to the user's intranet. This powerful combination allows the user to view process data on a near real time basis, perform data logging functions on specified modules, calibrate the signal conditioners remotely (under certain conditions) and view diagnostic information.

But, that's not all. Under user defined alarm conditions, the system can send email messages to up to ten people who might need to be notified when the alarm condition exists. Signal conditioners have never been able to perform that function until now. With a user selectable timer, the module can send an email message letting maintenance people know when it's time to perform calibration checks. Just imagine, signal conditioners that will notify you when something is not working within specified limits. Yes, your PLC/DCS system might have alarm notification capability, but what about those signals you wish you could monitor that are not connected to the PLC. That's where the WVC16 is an invaluable tool.



All this functionality is made possible by a signed Java applet that gets downloaded (transparently) to run on the client's computer. Using an applet rather than just a traditional web page allows data to be updated in near real-time. The applet provides access to the signal conditioner's data. The information available includes:

- · Module configuration summary
- Module configuration editing
- Diagnostic/warning status
- · Alarm setup & status
- · E-mail setup, editing & address book
- · Process variable viewing
- Data logging capabilities

As mentioned above, each WVC interface module is capable of supporting up to 32 I/O modules. The WVC16 contains a web server and email notification capability, as well as being the interface to an Ethernet network. All memory to support the signal conditioner's historical data is battery backed-up. Web pages and all e-mail messages are stored in non-volatile memory.

LED INDICATORS

There are six LED indicators, in two groups of three, that can be viewed through the translucent front cover. These are located down the left side of the unit. There is also a Power LED located on the right side of the unit. Their functions are described as follows:

GREEN POWER: On when 9 to 30VDC is applied to the unit.

Upper Group

RED ERROR: Flashes if one or more module errors have

been logged into the non-volatile SRAM or if the battery was disabled prior to applying power. Off if

neither of these conditions exist.

GREEN CONNECT: Always ON to indicate Ethernet client

connection.

Flashes if there is no connection.

Off if network parameters need to be set.

YELLOW MODULE: Indicates IR bus con-nection. If no modules

are present, the LED flashes. When modules are

detected, the LED is on continuously.

Lower Group

RED OFFLINE: Indicates a network socket connection

fault.

YELLOW TRAFFIC: Indicates 10Base-T transmit/receive &

collision activity.

YELLOW LINK: Indicates 10BASE-T link activity.

SOFTWARE

There are two software programs built into the WVC16. The first is a web server that provides the connection between the WVC16 and the client's computer (refer to Figure 1.). This is the "Home" page. From this point, other functions can be selected. The Statistics frame displays information on the Ethernet connection, frames sent/received etc., as well as information on the infrared bus between the modules. An Error Log will list any problems, that have occurred. The Help file contains the full manual for the WVC16.

NOTE: You need to have the Java applet plug-in installed on the client machine in order to load the WebView I/O Data Viewer. If you do not have the plug-in installed, the software will detect that and automatically connect to Sun Microsystems Java site to download and install the plug-in. As soon as that is complete, the WebView I/O Data Viewer will automatically download and open.

The WebView I/O Data Viewer (the Java applet) is "launched" from the home page in order to view the process data, define data logging parameters, set-up mail and address book information etc. The applet actually runs inside of a new window. The frame that comes into view when the applet is running is shown in Figure 2. This window shows all the modules connected to the WVC16. This is where the data logging function can be defined, if desired. Data logging is not simultaneous data from channel to channel. There is a time delay from sample to sample, plus network delays that may have to be considered. The time-stamped data can be saved to a file and opened in MS Excel for further analysis.

Clicking on a module name will bring up a window showing the signal, in near real-time, connected to the selected module. This window also provides access to look at and/or set the input and output ranges, set high and low alarm limits, calibrate the module (requires admin access) and the About tab which list the revision of the firmware, the current temperature of the module as well as the high and low temperature the module has seen and the number of hours it has been in operation.

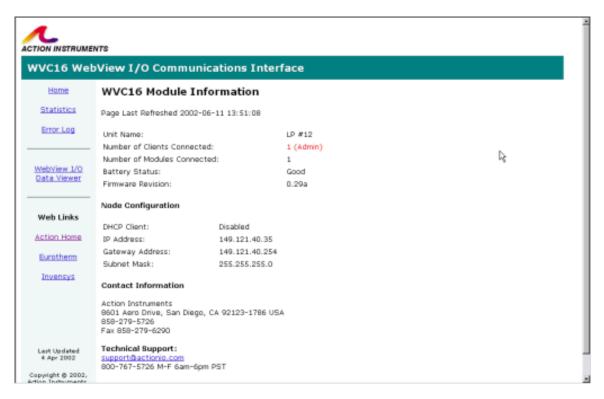


Figure 1

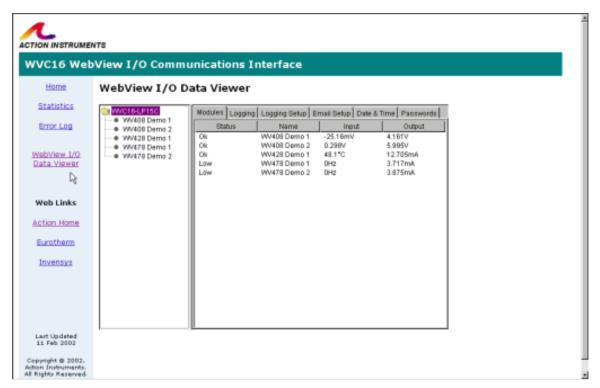


Figure 2

SPECIFICATIONS

Processor Am186ESLV, 25MHz

Data Logging

Capacity >24k Samples

Host Interface Type: Ethernet, 10Base-T

Connector: RJ45 Recommended

Cable: Cat 5 (Preferred for industrial

applications)

Utility Interface Type: RS-232

Baud rate: 9600 Data bits: 8 Stop bits: 1 Parity: None Flow control: None

Module Interface

Type: Infrared (IR), transparent to the user

Maximum number of modules: 32

User Interface Type: Web Browser, requires Java 2 Plug-

in

Internet Explorer: 5.01 or later

Netscape: 4.7 or later

Isolation 1500Vrms between 10Base-T port and all

other external connections

Battery Backup Battery Type: Non-rechargeable, 3V lithium,

CR2032 or BR2032

Life expectancy: 16 months for a fresh battery with battery enable switch ON

(typical), 10 years if never used

Power 9 to 30VDC, 1.2W max.

Size

DIN rail case - 0.89" wide (22.5mm)

Operating
Temperature 0°C to +60°C (32 to 140°F)

Storage Temperature -25°C to $+85^{\circ}\text{C}$ (-13 to 185°F)

Operating Relative

Humidity 15% to 95% RHNC @ 45°C

Non-Operating

Relative Humidity

90% RHNC @ 60°C for 24hrs

ORDERING INFORMATION

Specify:

1. Model:	WVC16-	0000
2. Limit /	Alarm or	Signal

Conditioning models as required:

WV108-0000 DC Input Limit Alarm WV108-0001 DC Input Limit Alarm w/

Latching Relays & Reset

Switch

WV128-0000 Thermocouple Input

Limit Alarm

WV128-0001 Thermocouple Input

Limit Alarm w/ Latching Relays & Reset Switch WV408-0000 DC Input Isolator WV418-0000 RTD Input Signal

Conditioner

WV428-0000 Thermocouple Input

Signal Conditioner
WV438-0000 Potentiometer Input

Signal Conditioner

WV448-0000 Bridge Input Signal Conditioner

WV478-0000 Frequency Input Signal

Conditioner

3. Accessories: C650-0000

MB03

C650-0000 Utility CD and Serial Interface Cable

WV905 24VDC Power Supply (0.5A)

H902 24VDC Power Supply (0.2A)

H910 24VDC Power Supply (1A)

H915 24VDC Power Supply (2.3A)

MD03 TS35 x 7.5 DIN rail (2 meters)

End Bracket for MD03

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