

WV478

MODEL

- Lower Power Requirements with Smart Power Control
- Greatly Improved Input/Output Accuracy and Stability
- Configurable with or without Ethernet Connection
- Direct Access to Sensor Data when Connected to the Intranet
- Provides Remote Diagnostic Capability (with optional WVC16)
- Versatile Alarm Capabilities Provide Email Notification when Problems Occur (with optional WVC16)
- Lifetime Warranty



WebView I/O Frequency Input, Isolating Signal Conditioner

Traditional Signal Isolator with Web Viewing Capability

DESCRIPTION

The WebView I/O Series from Eurotherm Action Instruments is an exciting new line of isolating signal conditioners. This new line provides features never before found in traditional signal conditioners. The WV Series has greater input and output accuracy than most signal conditioners on the market today. In addition, the stability of the unit beats that of most signal conditioners as well. Another feature, unique from other signal conditioners, is Smart Power. Smart Power eliminates wasted power in current output mode for low loop resistances. In addition, the WV Series provides the user with the capability to view sensor data directly over your company's intranet with a standard web browser. Just imagine, the WV Series will allow you to view configuration, maintenance and process information through a remote web browser. Further, the modules are capable of generating scripted e-mail messages, triggered when process variables or maintenance based performance parameters exceed or fall below pre-set levels. The WV478 supports input spans of 2Hz to 10kHz, with an autoranging input. The input amplitude can be a range between 150mVp to 150Vrms.

SMART POWER

The WV Series modules incorporate Smart Power for their output supplies, providing a potential power savings of 500mW per unit. Smart Power adjusts its output voltage and current, depending upon the power output required to drive the current load. A low impedance current loop will now use less power than a high impedance current loop. Previous technology only allowed for a single supply at the highest voltage required to drive the highest impedance load. Low impedance loops only require an output supply voltage of 5VDC. For a 20mA current, this consumes 100mW. In comparison, a high impedance load or older style supply requires 26VDC. This would consume 520mW. Both voltage and current have an input accuracy of 0.015% of full scale. Outputs include 0-10V, 0-20mA and 4-20mA.

ENHANCED LED DIAGNOSTICS

Other than when executing the push button calibration routine, the LEDs blink under the following conditions:

- GREEN:** 2Hz when the **input** is **under** range
8Hz when the **input** is **over** range
- RED:** 2Hz when the **output** is **under** range
8Hz when the **output** is **over** range

An Under range condition exists when the signal is lower than the operational low value minus 6.25% of the operational span. An Over Range condition exists when the signal is higher than the operational high value plus 6.25% of the operational span. A voltage output short circuit may cause an under range condition (RED blinking at 2Hz rate). A current output open circuit may cause an over range condition (RED blinking at an 8Hz rate).

There could be two or more LEDs blinking at the same time. That means the module has more than one error condition. Only when all error conditions have been removed, will the LEDs be back to normal (Green ON, Red and Yellow Off).

CONFIGURING MODULES

As mentioned above, configuration is accomplished via setting DIP switches and using a push button for calibrating ranges. Additionally, it is possible to remotely modify parameters of each module, such as range, using as Ethernet connection to the WVC16 and a remote PC-based web browser. The browsers supported include current versions and the latest prior version of Netscape Navigator and Microsoft's Internet Explorer. From the browser, it is possible to configure any of three alarms that would be available from each input (see ALARMS below). The configuration of alarms includes the ability to set alarm limit values for

each input and the ability to trigger generation of an e-mail message when an alarm limit condition is invoked. Once the alarm is triggered, the WVC16 will e-mail the specified users (up to 10) if desired. The message can contain the following: Date/Time the trigger occurred, Trigger Name, trigger Type, Trigger value (if applicable), Module Name and WVC16 name.

ALARMS

Each module supports up to three alarms. These alarms could be configured to support the following: high limit, low limit and a timer for routine maintenance.

WEBVIEW COMMUNICATIONS INTERFACE

Each WVC16 is capable of communicating with up to 32 I/O modules. The interface contains a web page server and an e-mail server as well as being the interface to the modules. All memory to support the signal conditioner's historical data, storage of the web pages and all e-mail messages is contained in the WVC16.

The WVC16 actually downloads a JAVA applet to the client's computer. The applet provides access to the signal conditioner's data. The information available includes the following:

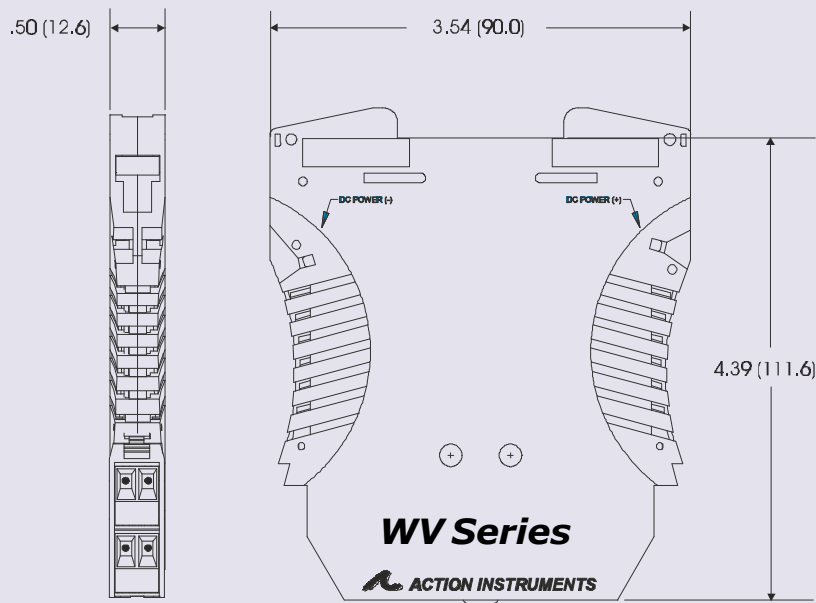
- Module configuration summary
- Module configuration editing
- Diagnostic/warning status
- Alarm setup & status
- E-mail setup, editing & address book
- Process variable viewing

FACTORY ASSISTANCE

For additional information on installation, operation and calibration, please contact Action's Technical Services Group. Call toll free:

86-411-82650498

DIMENSIONS



SPECIFICATIONS

Electrical

Frequency Input Span	2Hz to 10kHz
Input Amplitude	
Low Range	150mVp to 50Vrms
High Range	500mVp to 150Vrms (DIP switch selectable)
Outputs	Voltage: 0 to 10VDC Source Impedance: < 10Ω Drive: 10mA Current: 0 to 20mA Source Impedance: > 100kΩ Compliance: 18V @ 20mA (900Ω max)
Output Accuracy	±0.05% of Full Scale Local Range
Selection	By DIP switch
Burnout Detection	Programmable for upscale, downscale or none
LED Indication	GREEN: RUN, on when unit is powered. Flashes at 2Hz rate when input is under range by 6.25% Flashes at 8Hz rate when input is over range by 6.25% RED: OUTPUT, on while calibrating the output level Flashes at 2Hz rate when the output is under range by 6.25% Flashes at 8Hz rate when the output is over range by 6.25% YELLOW: INPUT, on while calibrating the input level
Response Time	100mSec (10 to 90%)

Stability	±100ppm of full scale/°C (±0.01%/°C)
Common Mode	
Rejection	120dB @ DC, >90dB @ 60Hz, or better
Isolation	1800VDC or peak AC between input, output & power
ESD Susceptibility	Capable of meeting IEC 801-2 level 3 (8kV)
Power	9-30VDC 1.0W typ., 2.0W max Host Module
Interface	IRLink
Physical	
Size	DIN rail case - 0.5" (12.5mm) wide
Operating Temperature	0°C to +60°C (32 to 140°F)
Storage Temperature	-25°C to +85°C (-13 to 185°F)
Operating Humidity	15% to 95% RHNC @ 45°C
Storage Humidity	90% RHNC @ 60°C for 24 hours
Agency Approvals	CE, EN50081-1, EN50082-2, EN61010 (EMC & Safety) CSA C22.2, No. 0-M91, 142-M1987 UL508

Specifications are subject to change.

MODELS & ACCESSORIES

Ordering Information

Specify:

1. Model: **WV478-0000**
2. Optional Custom Factory Calibration (specify **C620** with desired input and output range).
3. Accessories

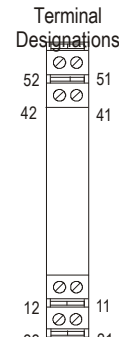
Accessories

All WV Series modules will mount on standard TS35 (model MD03) DIN rail. In addition, the following accessories are available:

WVC16	WebView Communications Interface
MD03	TS35 x 7.5 DIN Rail (2 meters)
WV905	24VDC Power Supply (0.5 Amp)
H910	24VDC Power Supply (1 Amp)
H915	24VDC Power Supply (2.3 Amp)
MB03	End Bracket for MD03

Terminal Connections

Terminal	Function
11	DC Power (+)
12	DC Power (-)
21	DC Power (+)
22	DC Power (-)
41	Input (+)
42	Input Common
51	Output (+)
52	Output Common



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