

AS-1140 16 Channel Constant Current With Buffered Outputs



The AS-1140 Buffered Output is a 2U (3.5") high 19" rack mountable chassis that provides an electrically isolated interface for monitoring systems utilizing dynamic sensors such as accelerometers, force sensors, and strain gauges. It can be configured to operate on either 115 VAC/60Hz or 230 VAC/50Hz. The unit accepts electrical signals up to +/-23 Volts and 20 kHz without any signal integrity degradation.

The AS-1140 provides 16 independent channels for monitoring and uses BNC style connectors. Two rows of sixteen BNC connectors are located along the rear panel of the chassis and are electrically tied together. The input connectors located at the bottom row connect the transducers to be monitored. The output connectors situated at the top row feed the raw transducer signals to the main monitoring system.

The buffered outputs provide a means of connecting test equipment to the transducer monitoring system without disturbing the raw sensor signal. The buffered outputs reproduce the input signal within an accuracy of +/- 1%. The 16 input channels can be configured to provide constant current excitation to piezoelectric transducers such as accelerometers, force sensors, and strain gauges.

FEATURES

- 16 Buffered Output Channels
- Constant Current Excitation for Piezoelectric Transducers
- Open, Short, and Normal LED indicators
- Wide Voltage Range (+/- 23 Volts)
- Standard 19" Rackmount Chassis

The LED indicators for each buffered output indicate the status of each channel: open/disconnected (off), short (red), and normal (green).

There is an additional LED indicator on the left side of the front panel to indicate voltage status. When the unit is powered, the indicator will be lit (green).

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Front



Back

SPECIFICATIONS

INPUT AND OUTPUT (16 CHANNELS) - ON BACK SIDE

Impedance:	100 K Ohms
Voltage Range:	-23 to +23 Volts
Constant Current:	3.9 mA nominal
Connector:	BNC

BUFFERED OUTPUT (16 CHANNELS) - ON FRONT SIDE

Sensitivity:	Unity
Impedance:	700 Ohms
Voltage Range:	-23 to +23 Volts
Frequency Range:	DC to 20 KHz
Accuracy:	+1% of input reading
Connector:	BNC

LED INDICATORS

Channel Status:	Open (out), Short (red), Normal (green)
Power Status:	On (Green), Off (out)

ELECTRICAL

Input Power:	Standard 115 VAC input - .400A Slo Blo Optional 230 VAC input - .250A Slo Blo
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MECHANICAL

Dimensions:	19" x 3.5" x 13" (W x H x D)
Weight:	7 lbs



Founded in 1996, Alta Solutions Incorporated develops and manufactures dynamic data acquisition and monitoring systems. Our company offers a complete family of products to test, measure, and analyze everything from large power turbine engines to simple roller bearings.

Several Fortune 500 companies currently use our systems in production line testing, fatigue testing, remote vibration monitoring, and process control. These applications range from monitoring industrial turbine engines to fatigue testing delicate artificial heart valves.

Our complete family of products merges the Microsoft Windows 2000/XP graphical user interface with a powerful collection of digital signal processing software and data acquisition hardware, while maintaining the ease and connectivity of an everyday personal computer.

Alta Solutions systems are a product of our staff's vast knowledge and experience in digital signal processing, dynamic data acquisition, and vibration analysis.



Alta Solutions

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