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General

The DSP-101 Data Switch Panel is designed to select data from any one of twenty-four BNC connectors and route this data to any one of three BNC output connectors. Data routing from the input connectors to the output connectors is actuated by three banks of twenty-four switches or from a computer through an optional RS-232 interface. The switch panel has three monitor switches which route the data from the DATA-A, B, or C output connectors currently selected by switch bank A, B, or C to the monitor connector. A memory is included with the DSP-101 that stores the current switch conditions for banks A, B, and C, and the monitor switches whenever the prime power is interrupted. The memory restores the switches to the conditions they were in prior to the interruption of power when prime power is restored. Source and termination impedance should be considered during the installation to maintain signal integrity as the DSP-101 input and output connectors are not terminated.

The DSP-101 operates from 110 VAC, 60 Hz and is capable of handling signals from DC to greater than 20 MHz. The optional RS-232 interface is enabled by setting the local/remote switch to the remote position. An individual switch on banks A, B, and C will be illuminated indicating which input is currently routed to the output connector for that particular bank. The monitor switches for banks A, B, and C will be illuminated indicating which switch banks data is currently routed to the monitor connector. Switch conditions will be illuminated whether they are selected by the front panel switches or the RS-232 interface.

Electrical Specifications

<i>Power Requirements</i>	<i>105 to 125 VAC, 55 – 65 Hz, 15 Watts</i>
<i>Frequency Response</i>	<i>DC to 10 MHz, with less than 0.6 dB ripple and DC to 20 MHz, with less than 1.2 dB ripple when properly terminated.</i>
<i>Input Voltage Range</i>	<i>25 V p-p Max.</i>
<i>Inputs</i>	<i>24, 50 Ohm, BNC unterminated</i>
<i>Outputs</i>	<i>3, 50 Ohm, BNC unterminated</i>
<i>Monitor</i>	<i>1, 50 Ohm, BNC unterminated</i>
<i>Optional RS-232 Interface</i>	<i>On/Off, 3 wire RS-232 (DB-25 connector, Pin 1-XMIT, Pin 3-RCV, Pin 7-GND) with selectable Baud Rates (1200, 9600, and 19200).</i>

Mechanical Specifications

<i>Chassis</i>	<i>Standard EIA 19 inch wide X 7 inch high X 15 inch deep rack-mountable chassis with handles and slide rails.</i>
<i>Weight</i>	<i>Approximately 25 Pounds</i>
<i>Front Panel Controls</i>	<i>Three banks of twenty-four switches for selecting the input source, one bank of three switches for selecting one of the banks to monitor, a local/remote switch, and a power On/Off switch.</i>
<i>Rear Panel Connectors</i>	<i>Twenty-four BNC input connectors, three BNC data output connectors, one BNC monitor connector, one 25 Pin "D" RS-232 input connector, and one 110 VAC EMI filtered input connector.</i>
<i>Paint</i>	<i>Front and rear panels are painted per FED-STD-595, color # 26329 semi-gloss gray enamel with engraved black marking.</i>
<i>Fuse</i>	<i>MDL ½ Amp, 250 V, Located on rear panel.</i>

