

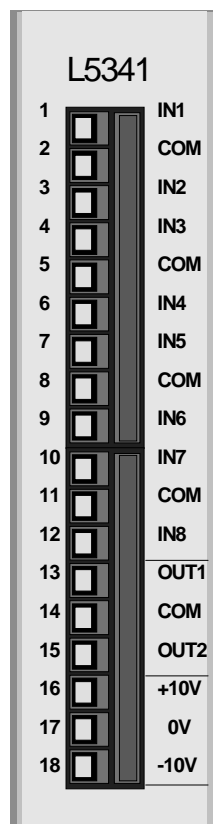


L5341 Analog LinkCard

GENERAL DESCRIPTION

The L5341 is an intelligent analog I/O card that plugs into a slot on an L5300 LinkRack or L5391 LinkStation. It contains a microcontroller, high resolution bipolar 10V analog inputs and outputs, an isolated power supply and signal isolation.

The Analog LinkCard has 8 inputs and 2 outputs, each being bipolar and capable of 14 bit (13 plus sign) resolution. In addition, it provides internally generated isolated +10 VDC and -10 VDC supplies which may be used to excite potentiometers, loadcells, dancers and other transducers. The input and output circuits are isolated from the backplane circuitry, but not from one another, or from the $\pm 10V$ excitation supplies. Terminations are in the form of pluggable screw type terminal blocks. Terminal designations are shown in the figure.



FUNCTION BLOCK

The L5341 is a function block which can be used within a LinkRack L5300 or LinkStation L5391 configuration. It is accessible using the Windows™ based graphical configuration package, ConfigEd 5, by opening an L5300 or L5391 file. Clicking on **Block/CX/L5341 Analog** makes the L5341 block appear. Double-click on it to set the “Site” information. This refers to the slot number in the L5300 or L5391 where the Analog LinkCard is inserted. Choose from J1 (leftmost) to J4 (rightmost). To set sample rates on any of the inputs, double-click on the appropriate field and type in the desired value in milliseconds. The default is 250 ms, with typical



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recommended values being 40-80 ms for loadcells and 60-100 ms for dancers. Any input channel may be disabled by entering "0" for its sample rate.

TECHNICAL SPECIFICATIONS

Environmental

Operating temperature	0°C to 50°C (32 to 122°F)
Storage temperature	-10 °C to +70 °C (14 to 158°F)
Humidity	85% R.H. in a dry, non-condensing environment
Enclosure Rating	Touchsafe IP20. To be mounted inside an enclosure

Supply

Supply Voltage	5 VDC, supplied by backplane
Current Consumption	600 mA Typical 620 mA Maximum
Power Dissipation	4.4 W Maximum

Inputs

Range	-10 VDC to +10 VDC Protected for ±15 VDC
Impedance	100 Kohms
Resolution	14 bits (13 bits plus sign) or 0.012%
Absolute Accuracy	0.25%
Scan Time	1 ms to 250 ms (software configurable)

Outputs

Range	-10 VDC to +10 VDC
Current	10 mA Maximum (short circuit protected) per channel
Resolution	> 13 bits (12 bits plus sign) or 0.015%
Absolute Accuracy	0.25%
Scan Time	1 ms

Reference Supply (Excitation for auxiliary devices)

Voltage	+10 VDC and -10 VDC
Tolerance	± 0.5%
Current	10 mA Maximum (short circuit protected)

Physical

Height	120 mm (4.72 in)
Width	32 mm (1.25 in)
Depth	90 mm (3.54 in)
Weight	0.2 kg (0.45 lbs)
