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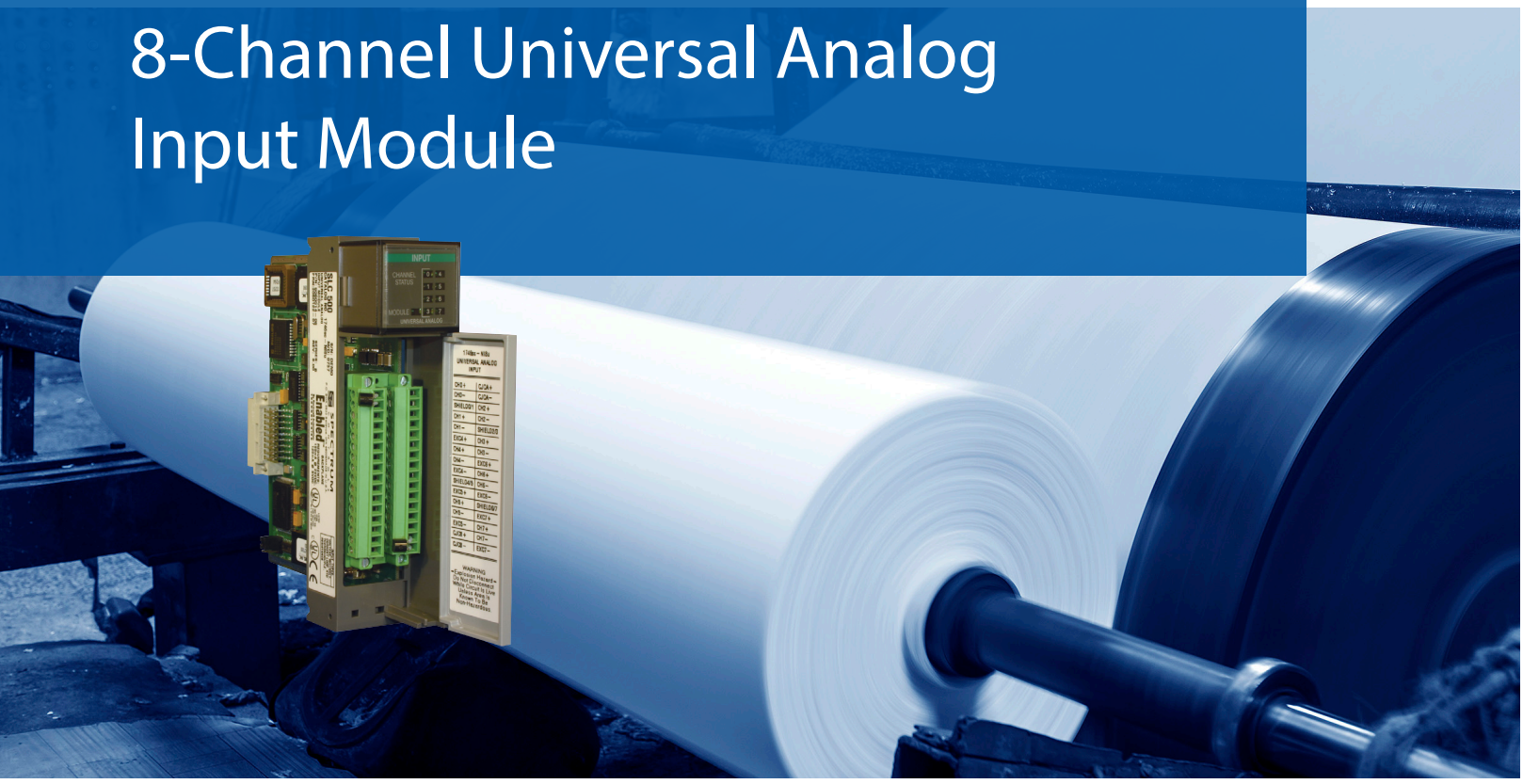
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SLC 500™

1746sc-NI8u 8-Channel Universal Analog Input Module



The 1746sc-NI8u Input Module provides full universal analog capability in one I/O module. The 1746sc-NI8u module can relace analog input, thermocouple, and RTD modules without compromising performance or price.

Reduce System Costs

- Eight channels of voltage, current, or two groups of thermocouple or RTD/resistence inputs or 4 RTD/resistance (2-, 3-, or 4-wire).
- 31 input types.
- Use any combination of input types at one time.
- Accuracy comparable with dedicated analog modules.
- Individually programmable for each channel.
- Easy to configure using ladder register settings or RSLogix programming software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- Cold junction compensation included for thermocouples.

1746sc-NI8u Specifications

Input Types	8 V, C, or TC, or 2 RTD/Res (2 groups of 4 Ch)
Input Ranges	
Thermocouple	J, K, T, B, E, R, S, N, C
RTD	PT385/3916, Ni618/672, Cu426
Resistance	0-3000 ohms
Current	0-20 mA, 4-20 mA,
Voltage	±50 mV, ±100 mV, ±0.5 V ±2.0 V 0-5 V, 1-5 V, 0-10 V, ±10 V
Advanced Features	4 filter frequencies (individually selectable by channel); full auto-calibration; on-board error checking open circuit detection for most input types; short circuit for RTDs.
Update Times (ms) *	
8-Channel Sample Time (s)	10 Hz: 314 / 50 Hz: 74 / 60 Hz: 64 / 250 Hz: 26
* with TC/RTD, update times may be longer. Autocalibration times not included	
Electrical Isolation	±12.5 VDC channel-to-channel for all but RTDs; 500 VDC field-wiring to backplane; 500 VDC field wiring to chassis ground; 0 VDC between RTD channels.
Input Impedance	>10 Mohm thermocouple, voltage, RTD 249 ohm, current
Input Overvoltage Protection	±14.5 VDC continuous 250 W pulsed for 1 ms
Input Overcurrent Protection	28 mA continuous; 40 mA, 1 ms pulsed, 10% duty cycle maximum
Backplane Current Required	120 mA at 5 V maximum , 100 mA at 24 V maximum
Common Mode Rejection	100 dB at 50/60 Hz
Normal Mode Rejection	100 dB at 50/60 Hz
Environmental Conditions	
Operational Temperature	-0 °C - 60 °C (32°F - 140 °F)
Storage Temperature	-40 °C - 85 °C (-40 °F - 185 °F)
Relative Humidity	5% - 95% (non-condensing)
Thermal Dissipation	3.0 Watts, maximum
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE
Recommended Cable	For TC inputs: shielded, twisted-pair TC extension wire; For RTD, mV, V, or mA inputs: Belden 8761 or equivalent; For RTD inputs: shielded Belden 9501, 9533, 83503

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