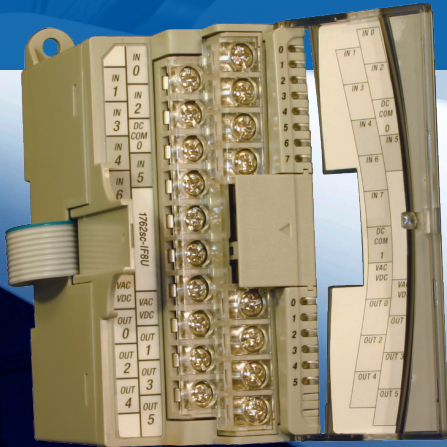


MicroLogix™

# 1762sc-IF8u 8-Channel Universal Analog Input Module



The 1762sc-IF8u Input Module provides full universal analog capability in one I/O module. The 1762sc-IF8u module can replace

analog input, thermocouple, and RTD modules without compromising performance or price.

## Reduce System Costs

- Eight channels of voltage, current, or three thermocouple, or two RTD/resistance inputs or 4 RTD/resistance (3- or 4-wire).
- 32 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.
- 3- and 4-wire support for RTDs.

# 1762sc-IF8u Specifications

Input Types	8 V, C, or TC, or 4 RTD/Res (2, 3 or 4-wire)			
Input Ranges				
Thermocouple	J, K, T, B, E, R, S, N, C			
RTD	PT385/3916, Ni618/672, NiFe518, Cu426			
Resistance	0-150, 0-1000, 0-3000 ohms			
Current	0-20 mA, 4-20 mA,			
Voltage	±50 mV, ±100 mV, 0-5 V, 1-5 V, 0-10 V, ±10 V			
Resolution	16 bits			
Advanced Features	4 filter frequencies (individually selectable by channel)			
Update Times (ms) *	4 Hz	17 Hz	62 Hz	470 Hz
8-Channel Sample Time (ms)	495	135	45	20
* with TC, update times may be longer				
Electrical Isolation (continuous)	10 VDC channel-to-channel isolation 125 VAC continuous			
Input Impedance	249 ohm, current			
Input Overvoltage Protection	±28 VDC continuous			
Input Overcurrent Protection	42 mA continuous			
Backplane Current Required	175 mA at 5 V maximum , 21 mA at 24 V maximum			
Common Mode Rejection	100 dB at 50/60 Hz			
Normal Mode Rejection	65dB to 74 dB at 50/60 Hz			
Environmental Conditions				
Operational Temperature	-20 °C - 60 °C (-4 °F - 140 °F)			
Storage Temperature	-40 °C - 85 °C (-40 °F - 185 °F)			
Relative Humidity	5% - 95% (non-condensing)			
Thermal Dissipation	1.40 Watt, 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			
Weight	268 g (0.591 lbs)			