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.

www.spectrumcontrols.com
### 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) *

<table>
<thead>
<tr>
<th>Update Times (ms) *</th>
<th>4 Hz</th>
<th>17 Hz</th>
<th>62 Hz</th>
<th>470 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-Channel Sample Time (ms)</td>
<td>495</td>
<td>135</td>
<td>45</td>
<td>20</td>
</tr>
</tbody>
</table>

* with TC, update times may be longer

### Electrical Isolation
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)