

DBK48™

16-Slot Multifunction Isolated Signal Conditioning

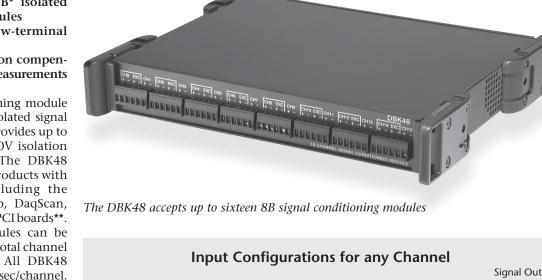


Compatibility: ✓ LogBook ✓ DagBook ✓ DagLab ✓ DagScan ✓ DagBoard/2000 Series

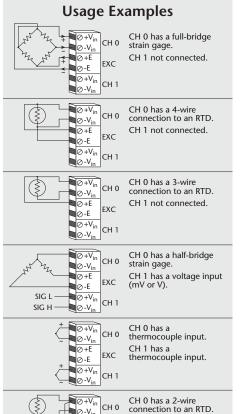
Features

- Accepts up to sixteen 8B* isolated signal conditioning modules
- Features removable screw-terminal connectors
- Offers built in cold junction compensation for thermocouple measurements

The DBK48[™] signal conditioning module uses the new, low-cost 8B isolated signal conditioning modules, and provides up to 16 channels of I/O with 250V isolation from channel-to-channel. The DBK48 attaches to any of IOtech's products with a P1 expansion port, including the LogBook, DaqBook, DaqLab, DaqScan, and DagBoard/2000 series of PCI boards**. Up to sixteen DBK48 modules can be attached to one P1 port, for a total channel capacity of 256 channels. All DBK48 channels can be scanned at 5 µsec/channel.



Signal Out **DB25** CJC -000 9 0-16 to 1 ● +V_{in} multiplexor CH 0 ■⊘-V_{in} Module EXC Output ● +V_{in} selection **8B** switch Module 0 0-000 IP1 Two of 16 channels 10 to 30 VDC DC DC-DC power in Converter DC power out



All signal connections are accomplished via removable screw-terminal connectors on the DBK48's front panel. Cold-junction compensation is built into the DBK48, allowing any channel to be configured as a thermocouple (TC) input channel. When 2-wire signals are attached to the DBK48, such as voltage, current or TC, all 16 channels can be populated with 8B signal conditioning modules. When 3-or 4-wire transducers are used, such as strain gages or RTDs, then the maximum number of 3- or 4-wire transducers is eight, plus an additional eight 2-wire transducers (volts, current or TC). For example, one DBK48 can be configured for 16 volts or TC inputs, or 8 strain inputs plus 8 volts or TC inputs.

- 8B modules must be purchased separately
- ** Requires an adapter for DaqBoard/2000 series

EXC

0+E

10-E

CH 1 has a

4 to 20 mA input.

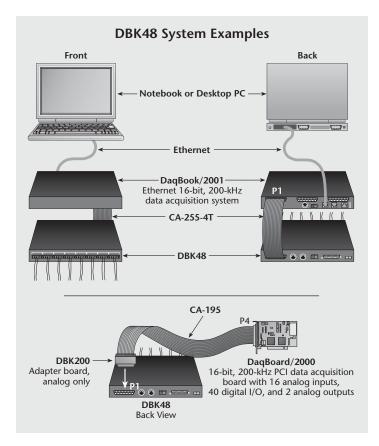
plug-in resistor

20 Ohm

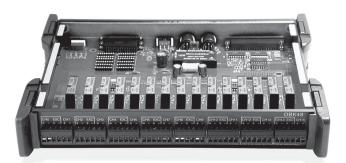


DBK48[™]

Specifications & Ordering Information



Powering the DBK48. The DBK48 is powered from a number of sources: an included AC adapter, an optional DBK30A™ rechargeable battery/excitation module, or directly from a 10 to 30V VDC source, such as an automobile battery. The DBK48 has a built-in DC/DC converter capable of providing 10W exclusively for 8B modules.



DBK48 with cover open showing 8B signal conditioning modules



8B modules allow a diverse range of signal conditioning requirements

Signal Connections. 8 sets of removable screw-terminal blocks are on the front of the DBK48. They provide access to all 16 input channels. 8B modules generate a 0 to 5V or $\pm 5V$ output signal that is multiplexed onto the P1 analog input connector. The output signal of each 8B module is also available on a 25-pin DSUB connector located on the rear panel of the DBK48, which can be measured by any device capable of measuring a $\pm 5V$ signal.

Specifications

Operating Environment: Temperature: -30°C to 70°C

Relative Humidity: 95% RH, non-condensing Vibration: MIL STD 810E Category 1 and 10 System Connector: DB37 male, mates with P1* Power Connector: DIN5 x2 for daisy chaining

Module Capacity: 16 (input only) voltage or thermocouple 8B modules, or 8 strain gage, potentiometer, or RTD 8B modules (any module requiring excitation)

Power Requirements (8B Modules): 10 to 30 VDC with included AC adapter

Power Consumption: 35 mW from P1

DC Power Required: 15V @ 833 mA, 20V @ 625 mA, assuming max load, 755 mW required from P1 when used with a DaqBook

DC Input Fuse: 2A

Input Connections: Eight sets of removable screw terminals (6 connections each)

Isolation

Input Power to System: 250 VDC Signal Inputs to System: 250 VDC Input Channel-to-Channel: 250 VDC

Dimensions: 285 mm W x 220 mm D x 45 mm H (11" x 8.5" x 1.75")

Weight: 1.13 kg (2.5 lbs.) with no modules installed

Ordering Information

 Description
 Part No.

 16-slot multifunction 8B expansion module including AC adapter
 DBK48

Accessories

Rack mount kit RackDBK3 8B Modules - See following page

Cables

5-pin DIN to automobile cigarette lighter power cable
Shielded T cable for use with LogBook, DaqBook, DaqLab,
DaqScan, and DaqBoard; 2 in.
CA-255-2T
Shielded T cable for use with LogBook, DaqBook, DaqLab,
DaqScan, and DaqBoard; 4 in.
Ribbon cable for use with LogBook, DaqBook, DaqLab,
DaqScan, and DaqBoard
CA-37-x

Note: The CA-37-x ribbon cable can also be used in lieu of the CA-255-x molded T cables.



Removable terminal blocks make wiring to your sensor easy

Attachment to the DaqBoard/2000 series requires a DBK200, DBK201, DBK202, DBK203, or DBK206 adapter

14



8B Module Selection Guide



for DBK48 Signal Conditioning Options

8B modules allow you to use IOtech PC-based data acquisition systems in applications with a diverse range of signal conditioning requirements. These applications include potentiometer, isolated current loop inputs, $\pm 10~\rm mV$ to $\pm 60\rm V$ inputs, linearized RTD, thermocouple, and all popular strain gage configurations. The following is a complete listing of the 8B modules available for IOtech products.

	Mario Reador
37 DATAFORTHS 1801ATD 1870T B	
8837	8B Modules

IOtech Part # Input Range SC-8B30-01	Voltage Input Modules (3-Hz BW)			
SC-8B30-01 ±10 mV ±5V SC-8B30-02 ±50 mV ±5V SC-8B30-03 ±100 mV ±5V SC-8B31-01 ±1V ±5V SC-8B31-02 ±5V ±5V SC-8B31-03 ±10V ±5V SC-8B31-04 ±1V 0 to +5V SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-10 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F SC-8B34-02 100Ω Pt 0°C to +100°C (+32°F to +392°F SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)*	IOtech Part #	Input Range	Output Range		
SC-8B30-03 ±100 mV ±5V SC-8B31-01 ±1V ±5V SC-8B31-02 ±5V ±5V SC-8B31-03 ±10V ±5V SC-8B31-04 ±1V 0 to +5V SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V SC-8B31-2 ±60V 0 to +5V SC-8B31-13 ±60V 0 to +5V SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F SC-8B34-02 100Ω Pt 0°C to +100°C (+32°F to +392°F SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F) Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B30-01				
SC-8B31-01 ±1V ±5V SC-8B31-02 ±5V ±5V SC-8B31-03 ±10V ±5V SC-8B31-04 ±1V 0 to +5V SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* Linearized 3- 02 0 to +5V Output, 3-Hz BW)* Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)*	SC-8B30-02	±50 mV	±5V		
SC-8B31-02 ±5V ±5V SC-8B31-03 ±10V ±5V SC-8B31-04 ±1V 0 to +5V SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* Linearized 3- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)*	SC-8B30-03	±100 mV	±5V		
SC-8B31-03 ±10V ±5V SC-8B31-04 ±1V 0 to +5V SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F to +	SC-8B31-01	±1V	±5V		
SC-8B31-04 ±1V 0 to +5V SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F to +212°F SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-03 SC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range	SC-8B31-02	±5V	±5V		
SC-8B31-05 ±5V 0 to +5V SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F to +212°F SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B31-03	±10V	±5V		
SC-8B31-06 ±10V 0 to +5V SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F to +212°F SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-03 SC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range	SC-8B31-04	±1V	0 to +5V		
SC-8B31-07 ±20V ±5V SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F to +212°F SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B31-05	±5V	0 to +5V		
SC-8B31-08 ±20V 0 to +5V SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt 0°C to +100°C (-148°F to +212°F to +212°F SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-03 SC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range	SC-8B31-06	±10V	0 to +5V		
SC-8B31-09 ±40V ±5V SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F to +212°F SC-8B34-02 100Ω Pt 0°C to +100°C (+32°F to +392°F sC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B31-07	±20V	±5V		
SC-8B31-10 ±40V 0 to +5V SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F SC-8B34-02 SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +212°F SC-8B34-03 SC-8B34-03 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range	SC-8B31-08	±20V	0 to +5V		
SC-8B31-12 ±60V ±5V SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F SC-8B34-02 SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-04 SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range	SC-8B31-09	±40V	±5V		
SC-8B31-13 ±60V 0 to +5V Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F SC-8B34-02 SC-8B34-02 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-03 SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range	SC-8B31-10	±40V	0 to +5V		
Current Input Modules (3-Hz) IOtech Part # Input Range Output Range SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F SC-8B34-02 100Ω Pt 0°C to +100°C (+32°F to +212°F SC-8B34-03 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B31-12	±60V	±5V		
IOtech Part # Input Range Output Range	SC-8B31-13	±60V	0 to +5V		
SC-8B32-01 4 to 20 mA 0 to +5V SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type Input Range SC-8B34-01 100Ω Pt	Current Input Modules (3-Hz)				
SC-8B32-02 0 to 20 mA 0 to +5V Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type	IOtech Part #	Input Range	Output Range		
Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Type	SC-8B32-01	4 to 20 mA	0 to +5V		
IOtech Part # Type	SC-8B32-02	0 to 20 mA	0 to +5V		
SC-8B34-01 100Ω Pt -100°C to +100°C (-148°F to +212°F SC-8B34-02 100Ω Pt 0°C to +100°C (+32°F to +212°F SC-8B34-03 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	Linearized 2- or 3-Wire RTD Modules (0 to +5V Output, 3-Hz BW)*				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IOtech Part #	Туре	Input Range		
SC-8B34-03 100Ω Pt 0°C to +200°C (+32°F to +392°F SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B34-01	100 Ω Pt -100°C to +10	00°C (-148°F to +212°F)		
SC-8B34-04 100Ω Pt 0°C to +600°C (+32°F to +1112°F Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B34-02	100 Ω Pt 0°C to +1	$00^{\circ}\text{C} (+32^{\circ}\text{F to } +212^{\circ}\text{F})$		
Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)* IOtech Part # Input Range Output Range	SC-8B34-03	100 Ω Pt 0°C to +2	200°C (+32°F to +392°F)		
IOtech Part # Input Range Output Range	SC-8B34-04	100Ω Pt 0°C to +60	00°C (+32°F to +1112°F)		
	Potentiometer Input Modules (0 to +5V Output, 3-Hz BW)*				
00 000 01 0 +- 1000 0 +5V	IOtech Part #				
2C-8B36-01 0 to 10075 0 to +2A	SC-8B36-01	0 to 100Ω	0 to +5V		
SC-8B36-02 0 to 500Ω 0 to +5V	SC-8B36-02	0 to 500Ω	0 to +5V		
SC-8B36-03 0 to 1 k Ω 0 to +5V	SC-8B36-03	0 to 1 kΩ	0 to +5V		
	SC-8B36-04	0 to 10 kΩ	0 to +5V		

8B31	8B Modules			
Thermocouple Input Mo	dules (0	to +5V Output, 3-Hz BW)		
IOtech Part #	Туре	Input Range		
SC-8B37-J	j	-100°C to +760°C (-148°F to +1400°F)		
SC-8B37-K	K	-100°C to +1350°C (-148°F to +2462°F)		
SC-8B37-T	Т	-100°C to +400°C (-148°F to +752°F)		
SC-8B37-R	R	0° C to +1750°C (+32°F to +3182°F)		
SC-8B37-S	S	0°C to +1750°C (+32°F to +3182°F)		
Voltage Input Modules (20-kHz B	SW)		
IOtech Part #	Input I	Range Output Range		
SC-8B40-01	±10 m	V ±5V		
SC-8B40-02	±50 m			
SC-8B40-03	±100 n	nV ±5V		
SC-8B41-01	±1V	±5V		
SC-8B41-02	±5V	±5V		
SC-8B41-03	±10V	±5V		
SC-8B41-04	±1V	0 to +5V		
SC-8B41-05	±5V	0 to +5V		
SC-8B41-06	±10V	0 to +5V		
SC-8B41-07	±20V	±5V		
SC-8B41-08	±20V	0 to +5V		
SC-8B41-09	±40V	±5V		
SC-8B41-10	±40V	0 to +5V		
SC-8B41-12	±60V	±5V		
SC-8B41-13	±60V	0 to +5V		
Linearized Thermocouple Input Modules (0 to +5V Output, 3-Hz BW)				
IOtech Part #	Type	Input Range		
SC-8B47-J-01	J	0°C to +760°C (+32°F to +1400°F)		
SC-8B47-J-02	J	-100°C to +300°C (-148°F to +572°F)		
SC-8B47-J-03	J	0°C to +500°C (+32°F to +932°F)		
SC-8B47-J-12	J	–100°C to +760°C (–148°F to +1400°F)		
SC-8B47-K-04	K	0°C to +1000°C (+32°F to +1832°F)		
SC-8B47-K-05	K	0°C to +500°C (+32°F to +932°F)		
SC-8B47-K-13	K	-100°C to +1350°C (-148°F to +2462°F)		
SC-8B47-K-14	K	0°C to +1200°C (+32°F to +2192°F)		
SC-8B47-T-06	T	-100°C to +400°C (-148°F to +752°F)		

Additional 8B modules will be introduced throughout 2005. Visit www.iotech.com/8Bmod for the most recent listing.

SC-8B47-T-07

* Available June 2005

 0° C to +200°C (+32°F to +392°F)