

Features

- Provides eight high-voltage input channels
- Per-channel selection of three voltage ranges via jumper
- Provides 10 MOhm input impedance for minimum loading errors
- Buffered inputs on each channel for high-speed scanning

The DBK8 provides eight high-impedance, high-voltage input channels for IOtech's data acquisition systems. The DBK8 accommodates 10, 50, or 100 VFS bipolar inputs that you can set on a per-channel basis via jumpers on the card.

The DBK8's 10 MOhm input impedance presents minimal loading of high impedance circuits and transducers (e.g., string pots), which ensures accurate readings over a wide range of source impedance, and high impedance transducers, such as string pots.

Each of the DBK8's inputs provides an individual buffer amplifier that allows the combination of high-speed (10 μ s/reading) and high-input impedances.

As many as 32 DBK8 cards can be used in one system for a total of 256 high-voltage differential inputs.

Specifications

Connector: DB37 male, mates with P1*; screw terminals for signal inputs

Voltage Input Ranges: ± 10 V, ± 50 V, ± 100 V; selection by jumper for each channel

Input Impedance: 10 MOhm

Attenuation:

| | | |
|------|-----------------------|---------------------|
| 10V | $V_{out} = V_{in}/2$ | (Bandwidth=579 Hz) |
| 50V | $V_{out} = V_{in}/10$ | (Bandwidth=1608 Hz) |
| 100V | $V_{out} = V_{in}/20$ | (Bandwidth=3047 Hz) |

Attenuation Accuracy: 0.5%

Offset Voltage

| | |
|------|--------|
| Typ: | 0.5 mV |
| Max: | 2.0 mV |

Offset Drift

| | |
|------|--------------------------|
| Typ: | 4 μ V/ $^{\circ}$ C |
| Max: | 10 μ V/ $^{\circ}$ C |

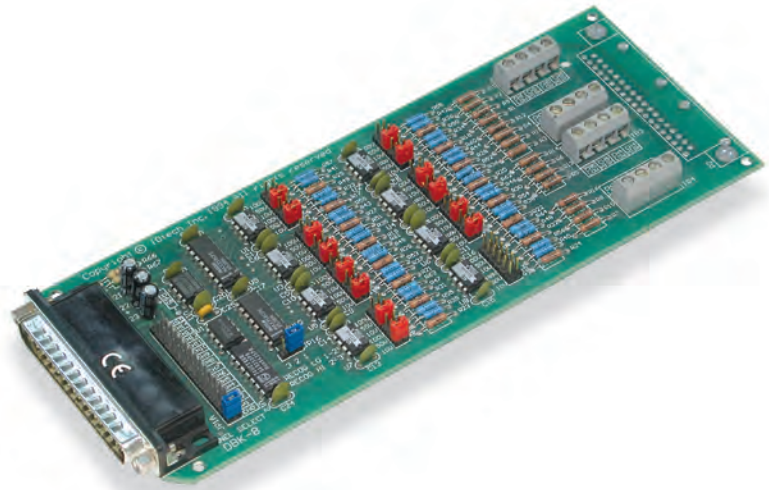
Power Consumption: 455 mW

Ordering Information

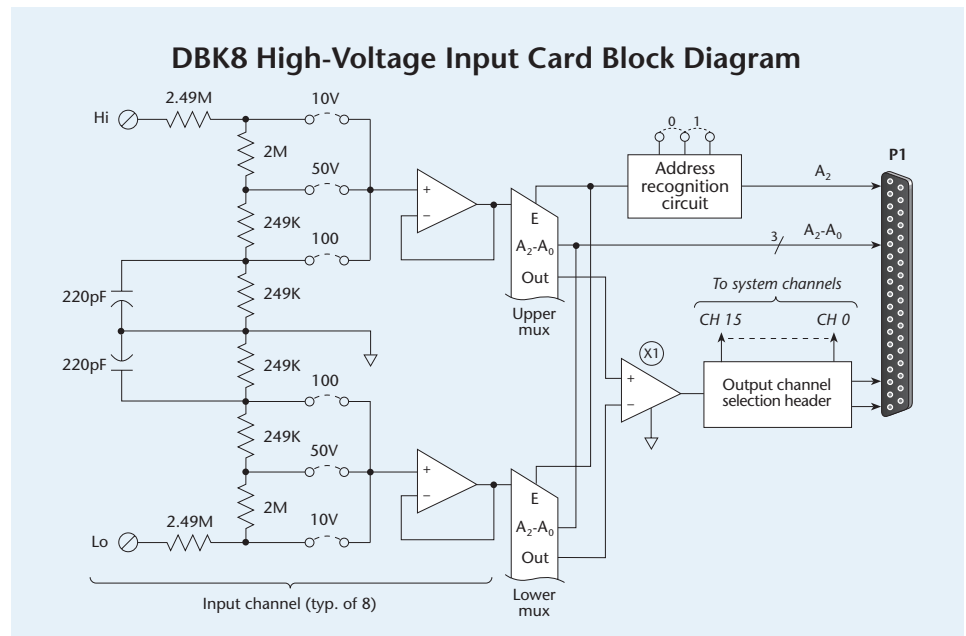
Description
8-channel high-voltage input card

Part No.
DBK8

* Attachment to the DaqBoard/2000 Series requires a DBK200, DBK202, DBK203A, DBK209, DBK213, or DBK214



The 8-channel DBK8 high-voltage input card provides three input ranges, which can be set on a per-channel basis



Cables

For use with DBK10, use CA-37-x ribbon cable, or contact factory of additional cabling options

For use with DBK60 or LogBook/360, no cable is required (except from DBK60 or LogBook/360 to the A/D mainframe)

For use with no enclosure, use CA-37-x where x is the number of DBK devices attached

For use with DaqLab Series (internal slots), use CA-255-2T with one board, or CA-37-2 for use with two DBK cards (or contact factory for additional cabling options)

Product Compatibility

- ✓ LogBook
- ✓ DaqBook
- ✓ DaqLab
- ✓ DaqScan
- ✓ DaqBoard/2000 Series