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Data Sheet

August 13, 2026

KEITHLEY

Keithley PDISO-8 8-Channel Isolated Digital I/O Board

Keithley PDISO-8 ISA 8 Channel Isolated Digital I/O Board The Keithley MetraByte PDISO-8 is a low-cost ISA 8-channel isolated input/output board for control and sensing. Eight electromechanical relay outputs (five FormCSPDT, three FormASPST normally open) switch 3 A at 125 V rms resistive. Eight non-polarized opto-isolated inputs accept 5 to 24 V DC or AC (50 to 1000 Hz). Each input has a switchable 5 ms slow/fast filter; filter out yields less than 50 μ s DC response. Relays and inputs are each one I/O byte. The board occupies four consecutive PC I/O addresses (two used) on a 4-bit boundary. PCI successor is KPCI-PDISO8A (solid-state, not this electromechanical pinout). The Keithley MetraByte PDISO-8 is a low-cost ISA 8-channel isolated input/output board for control and sensing. Eight electromechanical relay outputs (five FormCSPDT, three FormASPST normally open) switch 3 A at 125 V rms resistive. Eight non-polarized opto-isolated inputs accept 5 to 24 V DC or AC (50 to 1000 Hz). Each input has a switchable 5 ms slow/fast filter; filter out yields less than 50 μ s DC response. Relays and inputs are each one I/O byte. The board occupies four consecutive PC I/O addresses (two used) on a 4-bit boundary. PCI successor is KPCI-PDISO8A (solid-state, not this electromechanical pinout). Load switching and contact closure on ISA PCs; 12/24 VAC transformer sensing; external-switch and voltage s



MODEL

Keithley PDISO-8

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PDISO-8

LISTING

<https://aumictechlabs.com/products/pdiso-8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley PDISO-8 is an 8-channel isolated digital I/O board for control and sensing applications requiring galvanic isolation and ground-loop prevention. It combines 8 electromechanical relay outputs with 8 optically isolated inputs, interfacing through an ISA-bus compatible architecture and 37-pin D-type connector. Designed for industrial automation, process control, and laboratory environments demanding reliable signal integrity.

Technical Specifications

Relay Outputs 8 channels: 5 Form C (SPDT) contacts, 3 Form A (SPST) contacts
Contact rating: 3 A @ 125 Vrms (resistive load)
Contact resistance: 100 mΩ max (initial)
Operating time: 20 ms max;
Release time: 10 ms max
Mechanical life: 10⁷ operations minimum
Electrical life: 10⁵ operations minimum @ full load
Power-on state: De-energized (relays resting on NC contact)

Digital Inputs 8 channels, non-polarized optically isolated
Input range: 5–24 VDC or VAC (50–1,000 Hz)
Input resistance: 470 Ω to 1.6 kΩ
Response time: 5 V minimum; Input low level: <2.5 V maximum
Mixed AC/DC input capability
Power & Environmental +5 V supply: 0.4 A (all relays off), 1.0 A (all relays on)
Operating temperature: 0 to +50 °C
Storage temperature: –20 to +70 °C
Humidity: 0 to 90% non-condensing
Dimensions: 6.0 in × 4.25 in × 1.1 in (152 mm × 108 mm × 28 mm)
Weight: 213 g

Key Features Functional isolation prevents ground-loop faults and cross-talk
Dry relay contacts rated for both AC and DC switching
Channel-by-channel software filter control for noise rejection
Accepts mixed voltage supplies (AC and DC simultaneously)
Standard ISA-bus interface; backward compatible with legacy systems
Optional screw-terminal connector available (STC-37)

Typical Applications Industrial automation, distributed process control, data acquisition systems with isolated switching, laboratory test benches, equipment monitoring and protection circuits.

Compatibility & Integration ISA-bus compatible PC interface; 32-bit DriverLINX drivers. Bundled with ExceLINX, VisualSCOPE, and LabVIEW support. Requires Windows 95/98/NT environment (Pentium-series processor recommended).

Features & description

From manufacturer datasheet

Features

- Mix AC and DC inputs on the same board
- Relay read-back so one coil can be changed without disturbing others
- External series resistance extends the input voltage range
- 37-pin D connector to STA-U, STP-37/FC, or STC-37
- DriverLINX plus ExceLINX, VisualSCOPE, and LabVIEW drivers

PDISO Characteristics / Specifications

PARAMETER	VALUE
Model	PDISO-8
Manufacturer	Keithley Instruments (MetraByte lineage)
Instrument Type	ISA 8 channel isolated digital I/O board
Alias	PDISO-8; PDISO8; Keithley PDISO-8
Host Bus	ISA
Relay Outputs	8
Relay Contact Type	dry electromechanical
Relay Form C	channels OP0 through OP4 SPDT changeover
Relay Form A	channels OP5 through OP7 SPST normally open
Relay Contact Rating	3 A at 125 V rms resistive
Relay Contact Resistance	100 milliohm maximum initial
Relay Operate Time	20 ms maximum
Relay Release Time	10 ms maximum
Relay Life Mechanical	1e7 operations minimum
Relay Life Electrical	1e5 minimum at full load
Digital Inputs	8 non-polarized opto isolated
Input Range	5 to 24 V DC or VAC (50 to 1000 Hz)
Input Resistance	470 ohm minimum
Input Filter Time Constant	5 ms switchable
Input Response Unfiltered	250 us typical (less than 50 us DC class)
Input Response Filtered	10 ms typical
IO Map Size	4 consecutive addresses, 2 used
Relay Register	base plus 0 read/write
Input Register	base plus 1 read only
Connector	37 pinDtype male

PARAMETER	VALUE
Relay Vibration	10 to 55 Hz, dual amplitude 1.5 mm
Relay Shock	10 G, 11 ms
Operating Temperature	0 C to 50 C
Storage Temperature	minus 20 C to plus 70 C
Humidity	0 to 90 percent noncondensing
Weight	7.5 oz (213 g)
Dimensions	6.0 inLby 4.25 inHby 1.1 in D (15.2 cm by 10.8 cm by 2.8 cm)
Related PCI	KPCI-PDISO8A
Accessories	C1800, C-1800/M, STA-U, STP-37/FC, STC-37
Software	DriverLINX
Safety Category	IEC Installation Category I (isolate from mains withatransformer)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to plus 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	0 to 90 percent noncondensing
Weight	7.5 oz (213 g)
Dimensions	6.0 inLby 4.25 inHby 1.1 in D (15.2 cm by 10.8 cm by 2.8 cm)
Related PCI	KPCI-PDISO8A
Accessories	C1800, C-1800/M, STA-U, STP-37/FC, STC-37
Software	DriverLINX
Safety Category	IEC Installation Category I (isolate from mains withatransformer) Notes Specs from Keithley PDISO-8 datasheet (8 isolated in, 8 electromechanical relays, 3 A at 125 V rms). Do not confuse with KPCI-PDISO8A solid-state FormAPCI board. Confirm FormCversus FormAchannel mix on the 37-pin connector.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	PDIS0-8
Manufacturer	Keithley Instruments (MetraByte lineage)
Instrument Type	ISA 8 channel isolated digital I/O board
Alias	PDIS0-8; PDIS08; Keithley PDIS0-8
Host Bus	ISA
Relay Outputs	8
Relay Contact Type	dry electromechanical
Relay Form C	channels OP0 through OP4 SPDT changeover
Relay Form A	channels OP5 through OP7 SPST normally open
Relay Contact Rating	3 A at 125 V rms resistive
Relay Contact Resistance	100 milliohm maximum initial
Relay Operate Time	20 ms maximum
Relay Release Time	10 ms maximum
Relay Life Mechanical	1e7 operations minimum
Relay Life Electrical	1e5 minimum at full load
Digital Inputs	8 non-polarized opto isolated
Input Range	5 to 24 V DC or VAC (50 to 1000 Hz)
Input Resistance	470 ohm minimum
Input Filter Time Constant	5 ms switchable
Input Response Unfiltered	250 us typical (less than 50 us DC class)
Input Response Filtered	10 ms typical
I/O Map Size	4 consecutive addresses, 2 used
Relay Register	base plus 0 read/write
Input Register	base plus 1 read only
Connector	37 pinDtype male
Relay Vibration	10 to 55 Hz, dual amplitude 1.5 mm

PARAMETER	VALUE
Relay Shock	10 G, 11 ms
Operating Temperature	0 C to 50 C
Storage Temperature	minus 20 C to plus 70 C
Humidity	0 to 90 percent noncondensing
Weight	7.5 oz (213 g)
Dimensions	6.0 inLby 4.25 inHby 1.1 in D (15.2 cm by 10.8 cm by 2.8 cm)
Related PCI	KPCI-PDIS08A
Accessories	C1800, C-1800/M, STA-U, STP-37/FC, STC-37
Software	DriverLINX
Safety Category	IEC Installation Category I (isolate from mains withatransformer)

Notes

Specs from Keithley PDIS0-8 datasheet (8 isolated in, 8 electromechanical relays, 3 A at 125 V rms). Do not confuse with KPCI-PDIS08A solid-state FormAPCI board. Confirm FormCversus FormAchannel mix on the 37-pin connector.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.