

Power Supply Controller

# PIA4830



## Supporting Multiple Channels

The PIA4830 is a controller designed to control Kikusui's DC power-supply unit with a digital remote control via GPIB or RS232C. It can be used to control multiple DC power-supply units via your PC.

## Dimensions / Weight

70.4(2.77")W × 123.4(4.86")H × 350(13.78")Dmm/2kg(4.41 lbs)

## Accessories

Instruction Manual, AC power cord, TP-BUS connector, TP-BUS core, Utilities CD

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# PIA4850



## Digital control of DC power by USB!

The PIA4850 is a power supply controller with USB interface to control Kikusui DC power supply with TP-BUS. PAS Series, PWR Series or other models that equips TP-BUS can be digitally controlled by PC, as well as for read-back of output values and status monitoring. It operates using bus power and with its simple system and compact structure, you can use whenever you need with easy setup.

## Features

- USB 2.0 compatible
- Can be used with Windows 8/7/Vista/XP/2000.
- Operates using bus power. Requires no AC adapter.
- Bus power operation. No AC adapter required.
- Allows read-back of output values and status monitoring.
- Can control up to 32 DC power supplies that equip TP-BUS\*1. (Different power supply models can be combined.) TP-BUS connection can be extended up to 200 m. Ideal for remote monitoring!



Includes a magnet sheet to hold the device in place. Can be attached directly to the power supply.



The TP-BUS utilizes a daisy-chain connection. This makes adding power supplies easy and keeps cables neatly together.

## Dimensions / Weight

95(3.74")W × 18(0.71")H × 58(2.28")Dmm / 100g(0.22 lbs)

## Accessories

CD (instruction manual, driver files, sample programs, etc.), Magnet sheet for fastening the base, TP-BUS connector, TP-BUS cable (1 m), USB cable (1 m)

## Control Description

✓ : Controllable

DC Power Supply Series	PAS	PWR
Output voltage setting	✓	✓
Output current setting	✓	✓
Query for output voltage setting value	✓	✓
Query for output current setting value	✓	✓
Output voltage value read-back	✓	✓
Output current value read-back	✓	✓
Overvoltage protection activation point setting	✓	✓
Query for overvoltage protection activation point	✓	✓
Overcurrent protection activation point setting	✓	✓
Query for overcurrent protection activation point	✓	✓
Output ON/OFF	✓	✓
Power switch shutoff	✓	✓
Panel lock ON/OFF	✓	✓

## Required Drivers and Components

		WAVY application software	VB, VBA, VC++ LabVIEW
VISA (including USB-TMC driver)		Required	Required
PIA4800 instrument driver	IVI-COM/C	Not required	Required in some cases
	IVI Shared Components		

● The latest drivers available at the Kikusui website.

## Specifications

Item	Details	
TP-BUS	Connections	The connections given below are possible using the provided TP-BUS connector Expansion unit PIA4820: 4 units can be connected (Extension length: Maximum 200 m, Twist count: 1 time/cm or more)
	Number of controlled units	PAS Series : Maximum 32 units PWR Series: Maximum 32 units
	Polarity	None
	Conforming power wiring	Twisted wire: 0.32 mm <sup>2</sup> (AWG22) Extended length: Maximum 200 m 0.20 mm <sup>2</sup> (AWG24) Extended length: Maximum 20 m
USB	Conforms to USB 2.0 specifications, and to USBTMC-USB488 device class specifications. Communications speed: 12 Mbps (full speed) (High power device (power consumption: 200 mA))	
OS	Windows2000 Professional (SP4 or later) Windows XP Professional (SP2 or later, 32-bit versions) Vista Home Premium, Business, Ultimate (32-bit versions) Windows 7 (32-bit versions), Windows 8	
VISA specifications	Ver. 3.0 or higher	
Operating ambient temperature/Humidity range	0 °C to 40 °C, 10 % rh – 90 % rh (No condensation.)	
Storage ambient temperature/Humidity range	-20 °C to 70 °C, 10 % rh – 90 % rh (No condensation.)	
Installation location	Indoors, maximum height 2000 m	
Safety	Complies with the requirements of the following directive and standard. Low Voltage Directive 2014/35/EU EN 61010-1 (Class III, Pollution Degree 2)	