Programmable Attenuators





RS232\RS422/RS485

CF

A Logical Interface for Switchable Devices!



Features

- // Provides a flexible, powerful, low cost solution for bus control of programmable step attenuators and other switchable devices under computer control.
- // Designed to interface with API / Weinschel's line of intelligent programmable attenuators and other electromechanical devices.
- // Simplifies your bench test setups and subsystem design.
- // Available in two standard communication interfaces:
 - Model 8210A-1: GPIB/IEEE-488 (HS-488 ready)
 - Model 8210A-2: RS-232, RS-422, RS-485

Description

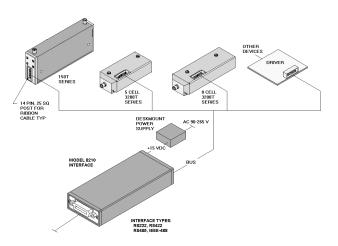
Model 8210A represents a new concept in device control applications and provides a high level interface from various industry standard communications interfaces to the serial Driver Interface Bus.

The Device Interface Bus (DIB) is a system for connecting a number of relatively low-speed I/O devices to a host, providing a simple, uniform and inexpensive way to control a variety of devices via a single port. The DIB is based on the two-wire serial bus and several software protocol layers that allow the Model 8210A to address up to 125 peripheral devices with serial data rates of up to 100 KHz. The DIB may also be used to supply DC power to the devices, resulting in a simple, low-cost interconnection system.

This Programmable attenuator/switch controller is available in two models, each providing a different type of communications interface to suit user configuration requirements. Each model contains similar capabilities, and provides switch-selectable parameters to the interfaces' operation.

Applications

Applications for the 8210A range from providing control of a single Programmable Attenuator in a bench test/lab environment using a PC and a terminal emulator, to complex system applications where the 8210A is employed to control many devices to create custom/semi-custom subsystems to reduce overall design cost. API / Weinschel can pro-vide a variety of custom designed driver interfaces for various devices, such as RF switches, relays, PIN attenuators, displays and other devices, as well as complete subsystem design and integration services. Contact us with your specialized needs.



Typical Capacity: Control a subsystem consisting of 32 individual 8-cell programmable attenuators plus 16 DPDT switches.

Accessories:

PART NUMBER	DESCRIPTION	
001-378	Deskmount Power Supply, +15 V 95-250 Vac, 47-63 Hz ac input	
193-8013	Interconnect Cable	
193-8012	Attenuator Mounting Kit: This kit includes all hardware to allow the user to mount one attenuator onto the Model 8210A	

For additional information on the Model 8210A, visit our website @ www.weinschel.apitech.com

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Specifications

SPECIFICATION		DESCRIPTION
DC Input	Connector: Requirements:	2.5mm barrel style +12 to +15 Vdc @ 250 mA
Driver Interface	Connector:	14-pin 0.025" square post header @ 0.1" centers. Mates with AMP 746285-2 or equivalent.
	Signals :	SDAserial dataSDCserial clockVDCDC supply voltageGNDground
	VDC Output Current: Maximum Cable Length Data Transfer Rate:	2 A maximum : 10 Meters (1000 pF maximum capacitance) 100 KHz
Environmental	Operating Temperature: Storage Temperature: Humidity: Altitude:	0 to +50°C -55° to +75°C (67° to +167°F) 95% 40,000' (12,192M)
IEEE-488 Bus ⁽¹⁾	Connector: Protocols: Indicators:	24-pin per IEEE-488.1 per IEEE-488.2 Remote, Listen
RS-232 Bus ⁽²⁾	Connector: Signals: Baud Rates: Data Bits: Handshaking: Parity: Indicators:	9-pin male D TXD, RXD, RTS, CTS, DTR, GND 2400, 9600, and 19200, 38400 8 None, RTS/CTS, XON/XOFF None, Odd, Even Tx (Transmit) and Rx (Receive Active)
RS-422 Bus ⁽³⁾ & RS-485 Bus ⁽⁴⁾	Connector: Signals: Baud Rates: Data Bits: Handshaking: Parity: Indicators:	9-pin male D(Model 8210-2) TXD+, TDX-, RXD+, RTX-, RTS+, RTS-, CTS+, CTS-, & signal GND 2400, 9600, and 19200, 38400 8 None, RTS/CTS, XON/XOFF None, Odd, Even Tx (Transmit) and Rx (Receive Active)

Notes:

1. GPIB/IEEE-488 model allows user-selectable addresses.

2. RS-232 can be used with standard PC serial port for short and medium distances (up to approximately 50 ft).

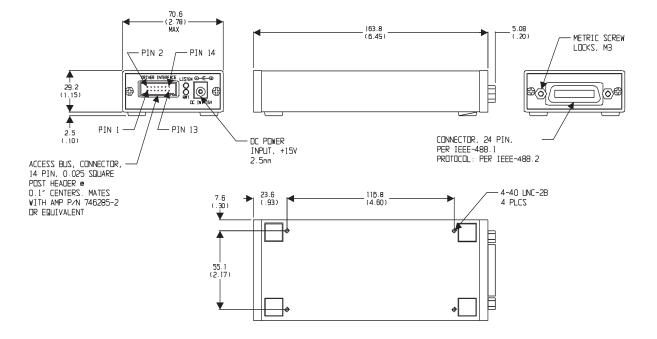
3. RS-422, designed for very long distance communications (4000 ft) & optimized as a single node protocol, typically with one device connected to a single port.

4. RS-485, designed for very long distance communications (4000 ft) & optimized for multi-drop connections that can used to create a low cost network.

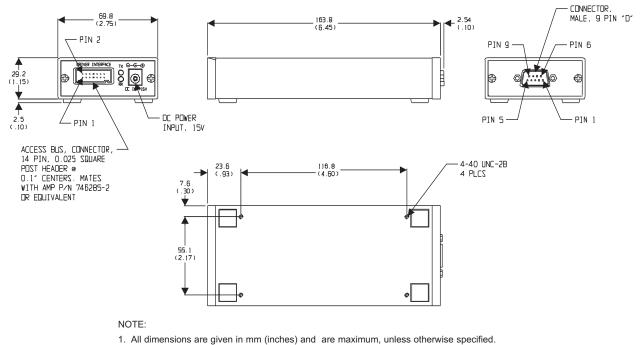


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Model 8210A-1 (IEEE-488):



Model 8210A-2 (RS-232/RS-422/RS-485):



2. Unit weight: 318 g (11.2 oz)