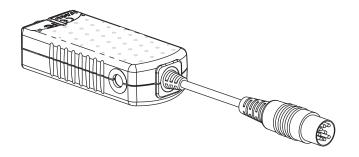


# **Analog Adapter**

**PS-2158** 



### Introduction

The PS-2158 Analog Adapter allows an analog ScienceWorkshop sensor to be used with a PASPORT interface. Multiple Analog Adapters can be used simultaneously to support multiple ScienceWorkshop sensors.

Compatible PASPORT Interfaces	Part Number
Xplorer GLX <sup>1</sup>	PS-2002
Xplorer <sup>1, 2</sup>	PS-2000
Power Link	PS-2001
USB Link	PS-2100

<sup>1</sup>When the Analog Adapter is used with an Xplorer or Xplorer GLX in logging mode (not connected to a computer), the logger records output voltage from the sensor. A future free upgrade to the GLX will support calibrated data logging. Visit www.pasco.com for the latest GLX upgrade.

<sup>2</sup>When the Analog Adapter is used with an Xplorer (PS-2000) in logging mode, the Xplorer Power Adapter (PS-2530) is recommended (and in some cases required) due to the high current draw of some ScienceWorkshop sensors.

### **Equipment and Software Setup**

DataStudio version 1.9.5 (or later) is required. Visit www.pasco.com to download the latest version of DataStudio.

The first three steps can be performed in any order.

- 1. Connect an analog ScienceWorkshop sensor to the cable of the Analog Adapter.
- **2.** Connect the Analog Adapter to a PASPORT interface.
- **3.** Connected the PASPORT interface to a computer.
- **4.** If DataStudio is not running, it will launch automatically.
- **5.** The ScienceWorkshop Analog Sensors list will open automatically. Select the connected sensor from the list and click OK.
- 6. To view and change the sampling rate, gain, and other settings of the sensor and adapter, press the Setup button in DataStudio's main tool bar; the Experiment Setup window will open. Refer to DataStudio documentation for further instructions.



### **Specifications**

88	-10 V to +10 V
Maximum input voltage range <sup>1</sup>	10 1 10 1
Absolute maximum input voltage range without damage	-40 V to +40 V
Input impedance	1 ΜΩ
Gain	1, 10, and 100 (selectable in DataStudio)
Maximum Sampling Rate	50 kHz with Xplorer GLX 1000 Hz with other interfaces
Analog-to-Digital Conversion	12 bit
Voltage Resolution	5 mV at gain = 1 0.5 mV at gain = 10 0.05 mV at gain = 100
Offset voltage accuracy	< ±5 mV
Full-scale voltage accuracy	< ±15 mV

<sup>&</sup>lt;sup>1</sup>When used with a ScienceWorkshop Voltage Sensor (CI-6503) or Current Sensor (CI-6556), the sensor measures differential voltage, but the maximum input voltage range to either terminal is ±10 V.

## **Technical Support**

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific

10101 Foothills Blvd. Roseville, CA 95747-7100

Phone: 916-786-3800 (worldwide)

800-772-8700 (U.S.)

Fax: (916) 786-3292 Web: www.pasco.com Email: support@pasco.com

#### **Limited Warranty**

For a description of the product warranty, see the PASCO catalog.

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