

Interfaces

Use an interface to connect sensors to your computers or mobile devices running PASCO software.

AirLink®

PS-3200



The AirLink is the most cost-effective way to wirelessly connect PASPORT sensors.

Connect one PASPORT sensor via Bluetooth® or through a USB connection. USB cable included.

Order Information	
AirLink Interface	PS-3200

SPARKlink® Air

PS-2011



Connect two PASPORT sensors via Bluetooth® or through a USB connection. Also includes dedicated ports for the included temperature and voltage probes. USB cable included.

Order Information	
SPARKlink Air Interface	PS-2011

SPARK LXi2

PS-3600B



Designed for use with wired and wireless sensors, the SPARK LXi2 can simultaneously accommodate up to five wireless sensors. It also includes two ports for blue PASPORT sensors, plus two ports for the included Fast Response Temp Probe and the Voltage Probe.

Scan to learn more:



pasco.com/lxi2

Order Information	
SPARK LXi2 Datalogger	PS-3600B

550 Universal Interface

UI-5001



The 550 Universal Interface is fast, flexible, and powerful while staying affordable. The 550 has half the ports and many of the great features of our 850 Universal Interface in a smaller package, with Bluetooth® and USB connectivity.

Order Information	
550 Universal Interface	UI-5001

850 Universal Interface

UI-5000



The 850 Universal Interface is the most powerful science education lab interface in the world, with the most ports, highest sampling rates, and the most powerful functionality and future expandability. It can also replace several pieces of lab instrumentation, which represents great value.

Order Information	
850 Universal Interface	UI-5000

Interface Comparison

Compare the features and capabilities and see which interface works best in your lab.



	AirLink PS-3200	SPARKlink Air PS-2011	SPARK LXI2 PS-3600B	550 Universal Interface UI-5001	850 Universal Interface UI-5000
PASPORT Ports	1	2	2	2	4
Built-in Temp and Voltage	No	Yes	Yes	No	No
Analog Inputs	0	0	0	2 (± 10 V, optional gain voltage 10x, 100x)	4 (± 20 V, optional gain voltage 10x, 100x, 1000x)
Digital Inputs	0	0	0	2	4
Connects via USB	Yes	Yes	Yes	Yes	Yes
Connects via Bluetooth	Yes	Yes	Yes	Yes	No
Rechargeable battery for cordless operation	Yes	Yes	Yes	No (AC adapter only)	No (AC adapter only)
Works with PASCO Capstone Software	Yes	Yes	No	Yes	Yes
Works with SPARKvue Software	Yes	Yes	Yes	Yes	No
Accepts PASPORT Sensors	Yes	Yes	Yes	Yes	Yes
Accepts ScienceWorkshop Sensors	No*	No*	No*	Yes	Yes
Maximum Sampling Rate	Sensor-dependent <1000 Hz	Sensor-dependent <1000 Hz	Sensor-dependent <100 kHz	Up to 2 MHz on one channel	10 MHz on two channels simultaneously
Signal Generator	N/A	N/A	N/A	± 8 V, at 400 mA, DC to 100 kHz	#1 ± 15 V at 1 A, DC to 100 kHz #2 & #3 ± 10 V at 50 mA DC to 500 kHz, independent
Included Items	USB Cable	AC adapter, USB cable, fast response temperature probe, voltage probe	AC adapter, fast response temperature probe, voltage probe	USB cable, power supply	USB cable, power supply
Expansion Port	No	No	No	No	44-pin port with voltage outputs, analog inputs, and digital I/O channels

* The AirLink, SPARKlink Air, and SPARK LXI2 can accept most ScienceWorkshop sensors with the proper adapter (see page 48), although they won't have the same high maximum sample rates. One exception is the Sound Sensor (UI-5101), which is not recommended for use with an adapter.

The PASCO 850 Universal Interface: The Ultimate Sensor Interface for Physics and Engineering

Clear the clutter on your lab bench. The 850 Universal Interface combined with PASCO Capstone software can replace multiple expensive pieces of equipment.

An incredible value!



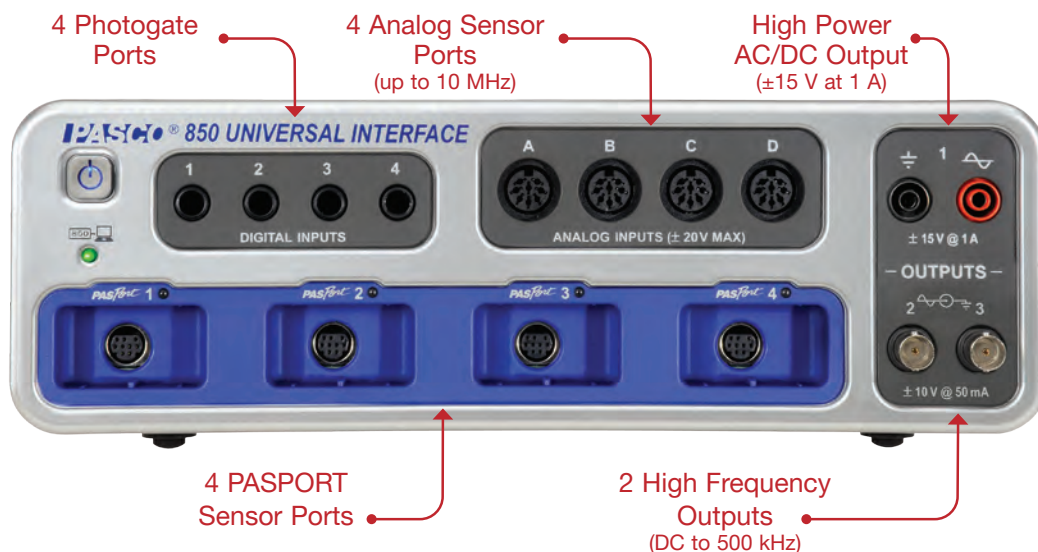
850 Universal Interface



PASCO Capstone Software

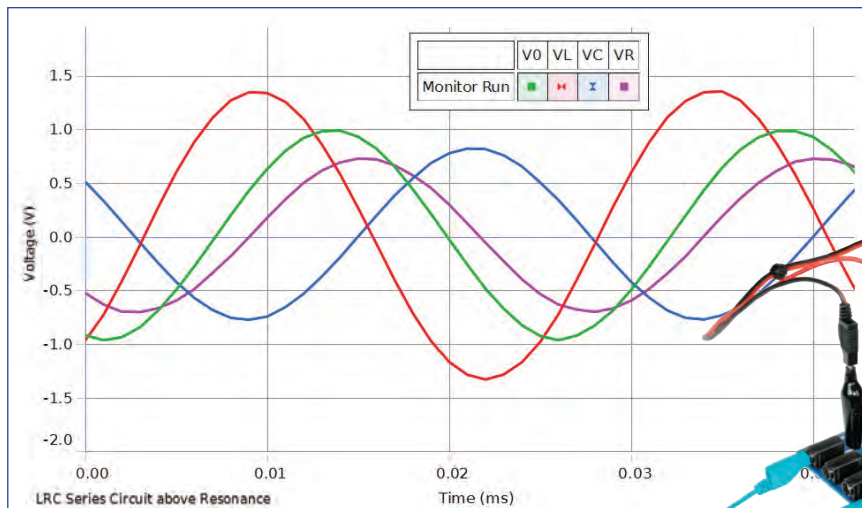


DC Power Supply, Oscilloscope, Digital Multimeter, and Function Generator

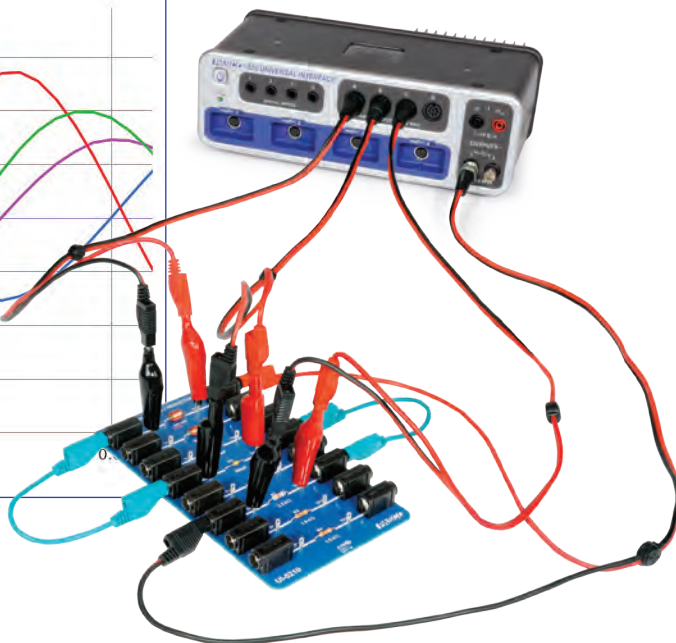


- ▶ **Study AC Circuits:** 10 MHz sample rate on two analog channels simultaneously; two independent high frequency outputs (50 mA at 10 V; DC to 500 kHz)
- ▶ **Power Speakers and String Vibrators:** High power function generator (1 A at 15 V; DC to 100 kHz)
- ▶ **Use Any Sensors You Have:** Compatible with ScienceWorkshop and PASPORT sensors; use at the same time
- ▶ **Explore Modulation:** External trigger input/output for synchronizing multiple 850s
- ▶ **Do 87 Core Physics Experiments:** Check out the Comprehensive 850 Physics Lab Manual (UI-5813; see page 78). Download online at pasco.com/comprehensivephysics
- ▶ **See detailed specifications:**
www.pasco.com/850

Order Information	
850 Universal Interface	UI-5000
Required:	
PASCO Capstone Software	pp. 86-89
Recommended:	
BNC Function Generator Output Cable	p. 29
Replacement Part:	
850 Universal Interface Replacement Power Supply	UI-5200



Four Channel Oscilloscope in PASCO Capstone



Dual Independent High Frequency Function Generators

Independent control of frequency, waveform, and amplitude. The voltages across the source, inductor, capacitor, and resistor are displayed in the oscilloscope.

BNC Function Generator Output Cable

UI-5119 (unshrouded) UI-5129 (shrouded)

- Converts the BNC output to two banana cords for the 850's function generators #2 and #3.



Shown in use with the 850 Universal Interface.

Resistor Capacitor Inductor Network

UI-5210

Board components can be used to investigate Kirchhoff's Circuit Laws, Ohm's Law, RC circuits, and A.C. LRC circuit theory with resonant frequencies between 55 kHz and 135 kHz, depending on values used.



Includes

- Two inductors: 6.8 mH, 2.5 mH
- Two capacitors: 3900 pF, 560 pF
- Four resistors: 47 kΩ, 3.3 kΩ, and two 1.0 kΩ.

Shown in use with the 850 Universal Interface.

Order Information	
Resistor Capacitor Inductor Network	UI-5210

8-Pin DIN Extension Cable

UI-5218

- Use to connect analog sensors to ports A through D on the 850.
- Analog sensors can also be plugged in directly to the 850 ports.



The 1.8 m long Extension Cable allows ScienceWorkshop Sensors to be used even further away from the interface. Multiple cables CAN be used in series. Also works with 750 and 500 interfaces.

Order Information	
8-Pin DIN Extension Cable	UI-5218

Order Information	
BNC Function Generator Output Cable (unshrouded)	UI-5119
BNC Function Generator Output Cable (shrouded)	UI-5129