

# HP StreamSmart 410

4-port data streamer



The HP StreamSmart 410 helps math and science students visualize experiment results by streaming data in real time.

### Make experiments come alive with the HP StreamSmart 410

Designed for use in math and science classes, the StreamSmart 410 connects real-world data to a student's graphing calculator, with accurate and immediate real-time streaming.

Suited for use in a wide range of subjects, including: math, science, pre-algebra, algebra, trigonometry/pre-calculus, calculus, statistics, earth science, environmental science, physical science, physics, biology, and chemistry.

### No waiting around to see results

- Watch and learn with real-time data collection as it occurs. Learning becomes exciting when you can capture up to four streams of data (motion, sound, temperature, light, etc.) and simultaneously see the results in real time – without any delays!
- Easily collect data points at rates of 5,000 or more samples per second<sup>1</sup>
- Identifies sensor type automatically and selects unit of measurement and optimal scaling
- Zoom in or out on the data streams in real time
- Supports data streaming, data logging, selection of events, and events with entry

### Use with HP Prime Graphing Calculators (G8X92AA) and Fourier data sensors

- Designed for use with the HP Prime Graphing Calculator (G8X92AA) and Fourier<sup>2</sup> measurement sensors
- Export selected data to the HP Prime Graphing Calculator (G8X92AA) for further analysis

### Set up experiments quickly and easily

- Solution is small and ultra-portable
- Automatically sends the collected data to the built-in analysis tool. No need to learn a new set of analysis tools

### HP quality and support

- HP's quality and reliability offer you peace of mind. Get the most from your calculator – visit [hp.com/calculators](http://hp.com/calculators) for more information

<sup>1</sup>Rate based on one port in use. Rates may vary based on number and type of sensor used

<sup>2</sup>Information on Fourier sensors can be found at: [www.fourieredu.com](http://www.fourieredu.com)

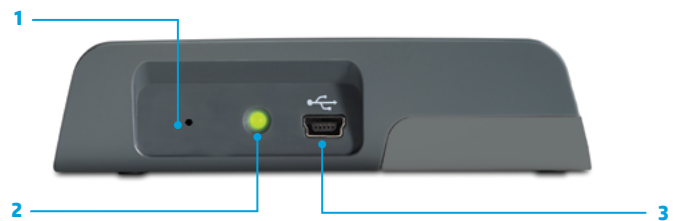
<b>Part number</b>	<b>NW278AA</b>
<b>Usage</b>	
<b>Ideal for</b>	Math, Science, Pre-Algebra, Algebra, Trigonometry / Pre-Calculus, Calculus, Statistics, Earth Science, Environmental Science, Physical Science, Physics, Biology, and Chemistry
<b>Supported Calculators</b>	HP Prime Graphing Calculator (G8X92AA)
<b>Mechanical</b>	
<b>Channels</b>	4 x 8-pin mini-DIN ports
<b>Supported Sensors</b>	40+ sensors from Fourier <sup>2</sup>
<b>Connectivity</b>	Mini to micro USB cable: connects to the HP Prime Graphing Calculator (G8X92AA) Micro-USB port Mini to standard USB cable: connects to a standard USB port
<b>Stream rate</b>	5,000 and more samples/sec maximum real-time rate <sup>1</sup>
<b>Features</b>	
<b>Device</b>	LED activity indicator light All ports accept either digital or analog sensors Plug-and-play operation on compatible Fourier sensors
<b>Power</b>	
<b>Battery</b>	Rechargeable Li-ion 3.7V battery
<b>Dimensions and weight</b>	
<b>Weight</b>	150 g (5.3 oz)
<b>Dimensions (L x W x D)</b>	10 x 8.7 x 2.4 cm (3.94 x 3.43 x 0.94 in)
<b>Material</b>	Plastic
<b>What's included</b>	
<b>Warranty</b>	1 year (may vary by region)
<b>What's in the box</b>	HP StreamSmart 410, user manual (availability varies per language), mini to micro USB cable, mini to standard USB cable, CD-ROM with user manual, warranty information

## Product walk-around



### Front view

1. Attach up to 4 sensors



### Side view

1. Reset button
2. LED activity indicator
3. Mini USB port allows for connection to the HP Prime Graphing Calculator

## Compatible Fourier Sensors

Part Number	Sensor Description
DT002	Voltage (2,5V)
DT006	Current (+- 250mA)
DT008	Microphone (35-10,000 Hz)
DT009-4	Light Sensor Multi-Range (0-600, 0-6,000, 0-150,000 lux)
DT014	Humidity (5% Accuracy) (0-100%)
DT015	Pressure (150 - 1150 mB)
DT015-1	Pressure (0 to 700 kPa)
DT016A	pH Electrode + pH Sensor Adapter (0-14 pH)
DT020-1	Distance (0.2-10m)
DT025	Temperature (0 to 1,200°C)
DT029	Temperature (-25 to 110°C)
DT035A	Conductivity Electrode + Sensor Adapter (0-20mS)
DT037A	Spirometer (±315 Liter/min)
DT040A	Carbon Dioxide Gas, CO2 (350-5,000 ppm)
DT095A	Turbidity (0-200 NTU)
DT138	Acceleration ((± 5g)
DT122A	Smart Pulley (0-99 m/s)
DT137	Photo Gate (0-5V)
DT148A	Rotary Motion (±128°)
DT155A	Heart Rate Sensor (Pulse) (0-200 bpm)
DT156	Magnetic Field Sensor (±10mT, 0-0.2mT)
DT185A	Colorimeter
DT189A	EKG Sensor (0-5V)
DT222A	Oxygen Sensor Adapter + Oxygen Electrode (Water: DO2: 0-12.5mg/L Air: O2: 0-25%)
DT272	Force Sensor (±10N, ±50N)
DT298A	Exercise Pulse Rate (0-200 bpm)
DT001	Voltage ((± 25V)
DT003	Voltage ((± 0-5V)
DT005	Current ((± 2,5A)

Learn all about HP Prime  
[hp-prime.com](http://hp-prime.com)

Learn more about Fourier Sensors at  
<http://fourieredu.com/store/products/category/sensors/>

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