

Technological innovations have been continually made in the progress of developing the AddeStation. In this connection, we have filed patent applications with regard to several strategic technological innovations as follows, of which more than half have been granted by the relevant authorities in Australia, China, Malaysia, Europe, Hong Kong, Korea, Singapore, Taiwan and USA:

[1] Miniature Datalogger

[2] Kit Set For Measurement And Comparison Of Heat Conduction And Heat Conductivity Of Materials And Method Of Using Thereof

[3] Experimental Kit Set For Investigation Into Solidification And Liquefaction Phenomena

[4] Kit Set For Facilitating Optical Experimentations And Method For Using The Same

[5] Kit Set to facilitate Experimentations relevant to Force and Motion

[6] Method And Device For Analog/Digital Converting A Signal Including A Low-Frequency Component

[7] An Arrangement And A Method For Measuring The Speed Of Sound

[8] Breadboard Used For Educational Purposes

We provide practical solutions that enable students to construct science concepts through Addestation!



aMixer MGA

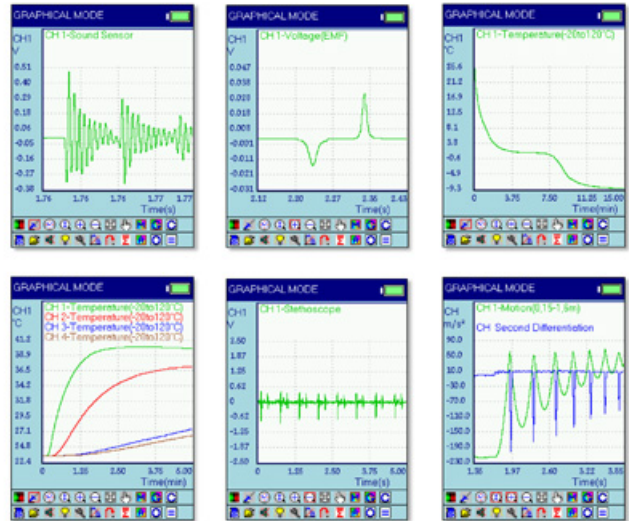
Meter • Graph • Analysis

Powerful • Portable • Power Efficient

Versatile • Ease of Use



- ✓ 4 Input Channels
- ✓ Auto Sensor Identification
- ✓ Color LCD Touch Screen
- ✓ Powerful Graphics
- ✓ On-Board Signal Analysis
- ✓ Comes with SD Card Socket
- ✓ Weighs only 250 grams



4 Input Channels

Auto Sensor Identification

USB 2.0 Interface to Computer

aMixer Mini

- A USB-based oscilloscope cum datalogger that operates on a PC
- Small (length 7 cm, width 4.7 cm), and can be plugged directly to the USB port of the PC/Laptop
- Facilitates 2-channel signal generation

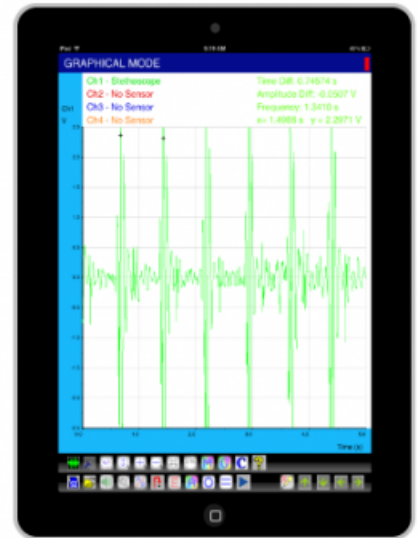


Wireless aMixer

Specially Designed for
Schools already have iPad
and/or Android Tablet



- ✓ Interface with iPad, Android Tablet, or PC via Wifi
- ✓ 4 Input Channels
- ✓ Auto Sensor Identification
- ✓ LCD Screen that indicates instant measurements



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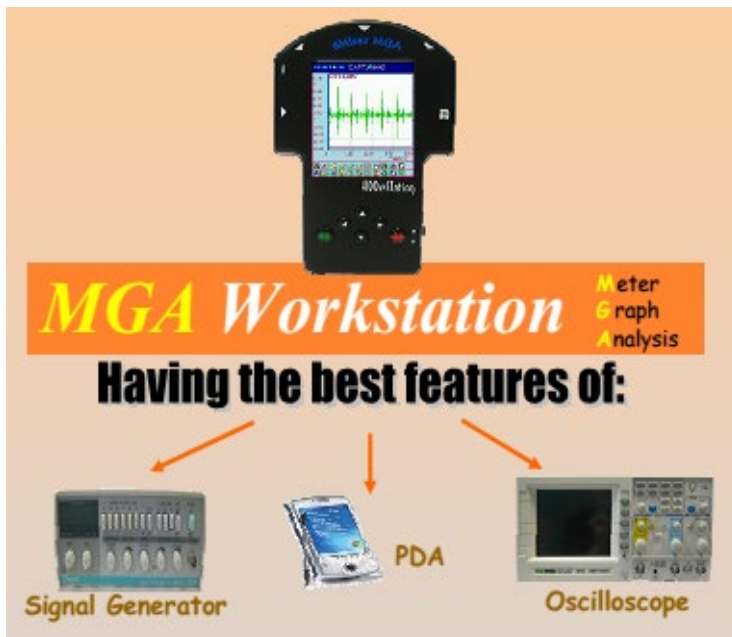
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ADDeStationTM
Workstation that Adds Most Value

Digital Balance Kit, Temperature sensor, Thermocouple, Sound Level sensor and Infra Red Thermometer Set SERIES

Meter Graph Analysis Workstation

By : ADDeSTation



➔ **Meter • Graph • Analysis**



The Technical Specifications

- It shall be able to capture 12-bit data continuously at a rate of 32,000 data per second or higher, and display all data instantly on the screen without delay;
- It shall be able to generate signals of frequency 4,000 Hz or higher, including sine wave, random pulse, pulse train, and short pulse of duration shorter than 5 ms;
- It shall operate up to 48 hours at a suitable data capturing rate without having to reply on external power supply;
- It shall come with a colour LCD screen which displays data and graphs;
- The user shall be able to execute the various datalogger functions by way of touch screen and also by way of button control;
- It shall provide analysis functions such as differentiation, integration, linear regression and curve fitting without being attached to a computer;
- It shall weight 230 g or lower to facilitate authentic outdoor learning trips;
- It shall provide Random Access Memory (RAM) of at least 256 KB and Flash Memory of at least 2 GB;
- It shall come with at least one built-in sensor so that complete datalogging can be accomplished without having to insert any external sensor;
- It shall be able to interface with 4 external sensors concurrently and identify the type of sensor automatically;

Digital Balance Kit

By : ADDeSTation

Specification :

-	It shall come with a high sensitivity digital balance, an interface cable, a fan, a 10 ml syringe, 2 shallow containers and 2 deep containers;
-	The range of the aforesaid high sensitivity digital balance shall be from -300 to 300 g with resolution 0.01g or smaller;
-	The readings obtained with the high sensitivity digital balance shall be able to be received by a suitable datalogger real time and displayed as a graph instantly;
-	It shall facilitate investigations into the various factors affecting the rate of evaporation including but not limited to surface area, air circulation and temperature;
-	It shall facilitate investigations into the nature and the rate of condensation
-	It shall facilitate investigations into osmosis and various forms of compound decomposition.
-	It shall facilitate parts counting



Temperature Sensor (Range : -20 to 120 °C) By : ADDeSTation



Description :

This sensor is designed to measure temperature. Its stainless steel's body can withstand corrosiveness that chemicals may introduce.

Specification :

+	Single Range: -20 to 120 °C
+	Accuracy: ±1 °C
+	Sensor Type: NTC Thermistor
+	Sensor Body: Stainless Steel (SS 316)
+	Body Length: 178 mm ± 2 mm
+	Body Diameter: 4 mm

Thermocouple

By : ADDeSTation

Description :

This sensor is designed to measure temperature in the range of -200 °C to 1200 °C..

It uses type-K thermocouple wire

Specification :

+	Single Range: -200 °C to 1200 °C
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Sound Level Sensor By : ADDeSTation

Description :

This sensor is designed to measure the loudness of sound.

It employs minimal analogue components and relies on digital signal processing (DSP) techniques to achieve very high signal to noise ratio.



Specification :

Dual Range :	
+	Low Range: 40 to 100 dB
+	High Range: 80 to 130 dB
+	Accuracy: ±0.1 dB

Infra Red Thermometer Sensor By : ADDeSTation

Description :

- This sensor is designed to measure the temperature of an object by measuring its infrared radiation emission.

It is a non-contact, fast-responding temperature measuring device.



Specification :

+	Temperature range: -20°C to 550°C
+	Resolution: 1°C
+	Accuracy: 2% at room temperature
+	Emissivity: 0.95 preset
+	Sighting: Red laser beam < 1mW (class 2)
+	Field of view: 100mm diameter at 1 meter distance
+	Data Rate: 2.5 Data / sec
+	Battery: 4 pcs AAA