

## RoHS Compliant

## Soldering Fume Extractor, Esd, 110V, 22W

## **Description**

This product is a Desktop-type Solder Smoke Absorber can be operated vertically or horizontally, can remove soldering smoke and fumes quickly, safely and quickly. Activated carbon filter is made of highly activated carbon, strong absorb, and has LED lighting function.

#### **Features**

- · Desktop-type with vertical and horizontal dual-use.
- Remove soldering smoke and fumes quickly and safely.
- Highly activated carbon material with strong absorb function.
- · LED lighting function.

## **Specifications**

Power Consumption : 220V AC/50Hz/16W

110V AC/60Hz/22W

Max. Suction Capacity : 1.03m³/min / 3ft²/min

Dimensions : 103.3mm × 161.8mm × 217.2mm Filter size : 142mm × 142mm × 10mm

#### **Test Data**

Test Item	Test Data
Air volume (vertical) m³/min	1.03
Air Volume (horizontal) m³/min	0.4
Air flow (vertical) m³/min	1
Air flow (horizontal) m³/min	2.6
Maximum suction capacity m³/min	1.03
Maximum suction capacity ft <sup>2</sup> /min	3



#### **Handheld With Bluetooth**

#### **Features**

- 3-5/6 bit resolution
- · Data Logger, Multimeter and Thermometer function
- · True RMS test supported
- BLE 4.0 wireless transmission, more stable, less power consumption
- · Build-in offline record function
- · Chart and Diagram mode helps to analyse the data tendency
- · Support NCV non-contact voltage sense
- · Widely supported on Android, iOS and Windows

## **Performance Specifications**

Parameters		Measurement Range	Resolution	Accuracy	
DC Voltage		60.00mV / 600.0mV (EU)	0.01mV	±(0.5%+2 dig)	
		600.0mV / 6.000V / 60.00V / 600.0V	0.1mV		
		1000V	1V	±(0.8%+2 dig)	
A O Malka a a		6.000V / 60.00V / 600.0V	1mV	±(0.8%+3 dig)	
AC Voltage		750V	1V	±(1%+3 dig)	
	μA	60.00μΑ / 600.0μΑ	0.01µA	1 (0 00/ 10 dia)	
DC Current	mA	60.00mA / 600.0mA	0.01mA	±(0.8%+2 dig)	
	Α	20.00A	0.01A	±(1.2%+3 dig)	
AC Current	μA	60.00uA / 600.0μA	0.1µA	±(1%+3 dig)	
	mA	60.00mA / 600.0mA	0.01mA		
	Α	20.00A	0.01A	±(1.5%+3 dig)	
B. Marian		600.0Ω / 6.000kΩ / 60.00kΩ / 600.0kΩ / 6.000ΜΩ	0.1Ω	±(0.8%+2 dig)	
Resistance		60.00ΜΩ	0.01ΜΩ	±(2%+3 dig)	
0 "		60.00nF / 600.0nF / 6.000μF / 60.00μF	0.01nF	±(2.5%+3 dig)	
Capacitance		600.0μF / 6.000mF / 60.00mF	0.1µF	±(3%+5 dig)	
Frequency		9.999Hz / 99,99Hz/999.9Hz / 9.999kHz / 99.99kHz / 99.9kHz / 9.999MHz	0.001Hz	±(0.8%+2 dig)	
Duty Ratio		0.1% to 99.9% ( typical value: Vrms=1V, f=1kHz)	0.40/	±(1.2%+3 dig)	
		0.1% to 99.9% (≥1kHz )	0.1%	±(2.5%+3 dig)	
Temperature (°C/°F)		- 50°C to +400°C	1°C	±(2.5%+3 dig)	
		-58°F to +752°F	1°F	±(4.5%+5 dig)	
Display		5999			
Frequency Response 40Hz to 1000Hz					
Shift Rate		3 times/s			



#### **Characteristics**

Bluetooth Module	$\sqrt{}$
True RMS	$\sqrt{}$
Diode Test	$\sqrt{}$
Auto Power-off	$\sqrt{}$
On-off Warning	$\sqrt{}$
Low-battery Indicator	$\sqrt{}$
Data Hold	$\sqrt{}$
Relative Measurement	$\sqrt{}$
Flashlight	$\sqrt{}$
Auto Ranging	$\sqrt{}$
LCD Backlight	$\sqrt{}$
Automatic-manual Range Selection	$\checkmark$
Input Protection	$\sqrt{}$
Input Impedance	≥10MΩ
Safety Compliance	600V CATIV, 1000V CATIII
NCV	$\sqrt{}$
Dimension (W×H×D)	196mm × 88.5mm × 56mm
Weight (without package)	0.3kg
Standard Accessories Included	Multimeter Lead, K-type Thermocouple, Manual, Bolt Driver, Alligator Clip
Optional Accessories	9V Battery
Warranty	12 months

#### Oscilloscope, 25Mhz, 2Ch

### **Features**

- Up to 100MHz bandwidth, and max. 1GS/s real-time sample rate
- 2 Channels
- Max 10M record length
- Friendly UI: FFT, or X-Y, and waveform 2 views displayed on the same screen
- Multi-trigger option: edge, video, slope, pulse, and alternate
- USB isolation less signal interference, more PC protection
- USB bus powering, and LAN remote control (optional)
- · Ultra-thin body design, easy portability
- SCPI supported
- LabVIEW supported (only in MP720019 US)

#### Oscilloscope Specifications

Parameters	MP720016 US
Bandwidth	25MHz
Channel	2 Analogue, 1 Ext Trigger



Para	meters	MP720016 US
Sample Rate		100MSa/s
Horizontal Scale (s/div)		5ns/div ~ 100s/div, step by 1~2~5
Rise Time		≤14 ns
Record Length		5K
Input Coupling		DC, AC, GND
Input Impedance		1MΩ±2%, in parallel with10pF ±5pF
Channels Isolation		50Hz: 100: 1, 10MHz: 40: 1
Max Input Voltage		40V (PK - PK) (DC+AC, PK - PK)
DC Gain Accuracy		±3%
DC Accuracy		Average≥16: ±(3% reading + 0.05div) for ∆T
Probe Attenuation F	actor	1X, 10X, 100X, 1000X
LF Respond (AC, -3	BdB)	≥5Hz (at input, AC coupling, -3dB)
Sampling Rate / Re	lay Time Accuracy	150ps
Interpolation		sin(x) / x
Interval (∆T) Accura (full bandwidth)	су	Single: ± (1 interval time + 100ppm × reading + 0.6ns), Average >16: ±(1 interval time + 100ppm × reading + 0.4ns)
Vertical Resolution (A/D)		8 bits (2 channels simultaneously)
Vertical Sensitivity		5mV/div ~ 5V/div
Trigger Type		Edge, Pulse, Video, Slope, and Alternate
Trigger Mode		Auto, Normal, and Single
Trigger Level		±5 divisions from screen center
Acquisition Mode		Sample, Peak Detect, and Average
Line / Field Frequer	ncy (video)	NTSC, PAL, and SECAM standard
Cursor Measureme	nt	ΔV, and ΔT between cursors
Automatic Measure	ment	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B , Delay A→B , +Width, -Width, +Duty, -Duty
Waveform Math		+, -, ×, ÷, invert, FFT
Lianziana Fianna	Bandwidth	Full bandwidth
Lissajous Figure	Phase Difference	±3 degrees
Communication Inte	erface	USB 2.0
Multi-function	Signal Type	Synchronized input / output, Pass / Fail , external trigger input
Interface	Level Standard	TTL
Power Supply	•	5.0V/1A
Power Consumption	า	≤1.5W
Dimensions (W × H × D)		170mm × 120mm × 18mm
Device Weight		0.26 kg
Standard Accessories Included		USB Cable, CD-Rom. Manual, Probes, Probe Adjust Tool
Optional Accessories		Soft bag
Warranty		12 months



## Power Supply, Bench, Prog, 1Ch, 5A, 30V; Power

## **Application**

Military R&D, Quality Inspection, Circuit Functional Testing, Automotive Circuit Testing, Education and Technical Training Electronic component testing and aging analysis, Monitoring battery charging curve.

### **Specifications**

Characteristic	MP710086 US	
Channel	Single Channel Output	
Total Output Power	150W	
Channel Output	0V to 30V / 0A to 5A × 1-CH	
Display	3.7 inch colour LCD Display	
Dimension	117mm(L) × 194mm(H) × 295mm(D)	
Weight	Approx. 5.6 kg	
Interface	RS232 and USB	

Note: The instrument must be operated continuously for more than 30 minutes at the specified temperature to ensure the following parameters.

Accessories Included : (UK / EU) or US Power Cord, Fuse,

RS232 Cable, USB Cable and User

Manual

Standard Warranty : 12 Months

Characteristic		MP710086 US
Rated Output (0°C to	Voltage	0 to 30V
-40°C)	Current	5A
Load Degulation	Voltage	≤0.01% +3mV
Load Regulation	Current	≤0.01% +3mA
Dower Degulation	Voltage	≤0.01% +3mV
Power Regulation	Current	≤0.01% +3mA
Cotting Decelution	Voltage	1mV
Setting Resolution	Current	1mA
Read Back Resolution	Voltage	1mV
Read Back Resolution	Current	1mA
Set Point Accuracy	Voltage	≤0.03% +10mV
(within 12 months) (25°C ±5°C)	Current	≤0.1% +5mA
Read Back Resolution	Voltage	≤0.03% +10mV
(25°C ±5°C)	Current	≤0.1% +5mA
D: 1.01.	Voltage (Vp-p)	≤4mVp-p
Ripple/Noise (20Hz - 20MHz)	Voltage (rms)	≤1mVrms
(20112 2011112)	Current (rms)	≤4mArms
Output Temperature	Voltage	≤0.03% +10mV
Coefficient (0°C to +40°C)	Current	≤0.1% +5mA
Read Back Tempera-	Voltage	≤0.03% +10mV
ture Coefficient	Current	≤0.1% +5mA
Response Time		100µs
Storage		5 groups of data
Working Temperature		0 - 40°C

### Digital Soldering Station, 80W, 120V

### **Specifications**

Input Voltage : 100V AC to 120V AC 60Hz

Heater voltage : 26V AC

Temperature range : 150°C to 450°C

Temperature offset range : ±50°C

Temperature stability : ±2°C (in still air, no load)

Temperature adjustment : 5 digits (Default)/1 digit (Fine-tuning)

Automatic stand-by time :1-120 minutes (Adjustable)
Automatic shutdown time :1-120 minutes (Adjustable)

Heater :60W High performance dual-core ceramic heater

 $\begin{tabular}{lll} Tip-to-ground impedance & :< 2\Omega \\ Tip-to-ground voltage & :< 2mV \\ \end{tabular}$ 

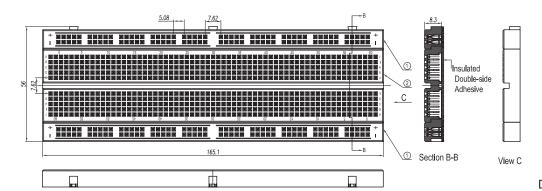
#### Includes

Main Unit	
Iron	1
Iron stand	'
Cleaning Sponge	

#### Solderless Breadboard

### **Specifications**

Pitch : 2.54mm **Terminal Strips** : 630 Tie-point Distribution Strips : 200 Tie-point Rated Voltage / Current : 300V / 3 to 5A : 500MΩ / DC500V Insulation Resistance Withstanding Voltage : 1,000V AC / 1 minute Wire Range : 29AWG to 20AWG : -25°C to +80°C Temperature Range Strip Length : 7mm to 8mm



- 1. Terminal Strip
- 2. Distribution Strips

Dimensions: Millimetres



### **Jumper Wire Assortment With Tips, 65 Pieces**

### **Specifications**

65 pcs of 22 AWG Jumper Wire

Line of different colours can be re-used

Lengths and Quantity : 100mm 45pcs.

150mm 10pcs. 200mm 5pcs. 250mm 5pcs.

## 4 Outlet 270J Surge Protector Strip

#### **Specifications**

No. of Outlets : 4 Outlets

Outlet Type : NEMA 5R to 15R

Current Rating : 15A
Supply Voltage V AC : 125V
Cable Length : 3ft

## **Part Number Table**

Description	Part Number
Developer Breadboard Kit : Breadboard + Jumpers + PC Baced Scope + DMM + Bech Top PSU + Soldering Station + Fume Extracter + Outlet Strip	Developer Breadboard Kit.

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

