

- Compact Rugged Case
- BNC Connections
- Portable
- Wide range of filters
- 0.1 Hz to 500 kHz cut-offs
- AC / DC / IEPE Inputs
- Single ended / Differential Input
- 9 – 30 V DC power input
- Fixed frequency 1200 version
- Switch controlled 1600 version



The Kemo PocketMasters are basic easy to use versatile filter units. They combine small size with a rugged case, standard BNC connectors and a wide range DC power input. PocketMasters are usually available from stock.

PocketMaster 1200 and 1600 have a configurable input, with internally switchable AC / DC coupling, switchable single ended/differential input, and a 24V 4mA IEPE transducer supply. The units take external DC power via a 2.1 mm power jack, a LED indicates correct power on. Signal input and output are BNC connectors. PocketMasters are available with the Kemo standard range of filter responses, suitable for anti-aliasing, general purpose as well as traditional Butterworth and Bessel filtering applications. Cut-off frequency, or cut-off range is specified at order along with the filter type, and the unit is then delivered configured and tested. All the user needs to do is to connect the signals and supply a suitable DC power source such as a 12V battery.

PocketMaster 1200's are supplied set to a fixed frequency, the input settings and gain can be adjusted by changing internal links and switches. PocketMaster 1200's can also be supplied fitted with the Kemo 1600 series filter modules, this gives 255 steps of cut-off frequency changed by internal dip switches.

PocketMaster 1600's have external knobs to set gain and frequency. Gain steps are; x1 (0dB), x10 (+20dB), x100 (+40dB), and x1000 (+60dB). There are 8 frequency steps in a 1,2,4,8,16,32,64,128 ratio.

PocketMasters are a basic quick easy to use filter, a great problem solver for small noisy signals, usually available from stock.

Applications

- Basic Laboratory Filtering
- Portable filtering
- Anti-aliasing
- Onsite filtering with gain
- Remote rugged applications
- Industrial plant

Due to continued product development Kemo Limited reserves the right to change specification without notice

• Kemo Limited

3 Brook Court
Blakeney Road
Beckenham Kent BR3 1HG
www.kemo.com
Tel + 44 (0) 20 8658 3838
Fax + 44 (0) 20 8658 4084

• Kemo Inc.

13183 Wexford
Hollow Road North
Jacksonville
FL 32224
Tel (904) 223 0662
Fax (904) 223 6771

Specification

1600 and 1200

Signal Inputs	BNC Connectors
Signal Levels	+/- 10V
Input Coupling	DC / AC (with dual line AC coupling for differential input)
Input Mode	Single ended / Differential / IEPE (24V, 1 - 10 mA, set by single resistor)
Input Impedance	> 1 M Ω
Bandwidth	0 dB gain, > 600 kHz
Output Impedance	50 Ω direct from filter module
Power	9 - 30 Volt DC, 2.5 Watt typical.
Power input	2.1mm Miniature Power Socket (2.1 x 5.5 x 12 mm Power Jack centre positive)
Power Indicator	LED indication of correct power
Operating Temperature	10 to 45 °C, non condensing.
Trim Adjustments	internal DC Offset, Gain. Multi-turn pots.
Dimensions	175 x 85 x 35 mm (6.9 x 3.3 x 1.4")
Weight	0.35 kg (0.8 lb) (typical)

PocketMaster 1600

Filter type - Kemo 1600 series filter module
 Gain - Externally set by knob 0,+20,+40,+60 dB
 Frequency - 1:128 range, x1,2,4,8,16,32,64,128 steps
 Frequency Control - External rotary control knob

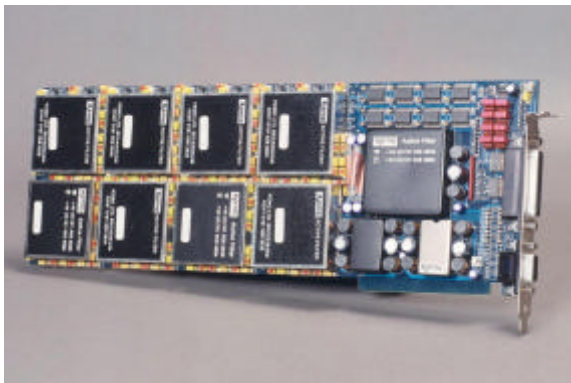
PocketMaster 1200

- Kemo 1200 or 1600 filter module
 - internal switch 0,+20,+40,+60 dB
 - 1200 Modules - fixed 0.1 Hz to 500 kHz
 - 1600 Modules – 255 steps, internally set

Base Frequency	Frequency steps Hz
1	1,2,4,8,16,32,64,128
2	2,4,8,16,32,64,128,256
5	5,10,20,40,80,160,320,640
10	10,20,40,80,160,320,640,1280
20	20,40,80,160,320,640,1280,2560
50	50,100,200,400,800,1600,3200,6400
100	100,200,400,800,1600,3200,6400,12800
200	200,400,800,1600,3200,6400,12800,25600

Other Products

Kemo produce a full range of filtering products, including bench top laboratory filters, multi-channel computer controlled filters and a range of filter modules. We have over 30 years expertise in the signal conditioning field, which usually leads to a simple solution to your filtering and signal conditioning requirements.



CardMaster8 – 8 Channel PC filter Card



VBF 2 – Dual Channel Bench Top Filter

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