

- 255 manually selectable frequencies
- 9 gain steps to x500
- Fits in Kemo 21 Series Racks
- Frequencies from 1 Hz to 127 500 Hz
- Signal level indication
- Single ended / differential Input
- IEPE (ICP®) transducer power
- Bypass setting
- Easy to use



The Kemo CardMaster 21.255G is a single channel filter card with front panel control of filter frequency and gain. Signal level is indicated by a three colour front panel indicator. Each channel is configurable with, single ended or differential input, AC/DC coupling, and IEPE (ICP®) transducer supply, all set individually for each channel. The CardMaster 21.255G is designed for occasional changes of filter frequency and gain using front panel controls. Removable knobs prevent accidental changes to the filter settings. Gain is set by 2 switches, x1,x2,x5 and x1,x10,x100 to give a total of 9 gain steps to x 500. Signal level is indicated by a green/orange/red panel indicator. A front panel setting bypasses the filter. The CardMaster 21.255G uses the Kemo 1600 programmable series of filter modules, available in a wide range of frequencies and filter responses. A 10 Hz base frequency filter has 255 steps of 10 Hz, providing filtering from 10 Hz to 2550 Hz. Base frequencies of 1,2,5,10,20,50,100,200 and 500 Hz are available for Kemo filter responses 01 (**anti-aliasing**), 03 (**48dB/Octave Butterworth**), and 41 (**general purpose**), these are usually available from stock. Other specialist responses and frequencies are available to special order. An optional interface can provide external control of CardMaster 255G settings.

### Specification

Frequency Setting	255 steps, set by two front panel Hexadecimal switches.
Operating modes	Filter in / Filter bypass – filter bypass is frequency setting 255.
Control	Front panel switches for frequency and gain setting.
Operating Temperature	-10 to 45 °C, non condensing.
Input	Signal +/- 10 Volt. Single ended/differential input. Coupling DC, AC. IEPE (ICP®) 24V, 1 – 10 mA selectable.
Input Gain	x1, x2, x5, x10, x20, x50, x100, x200, x500 front panel switches.
Signal Indication	0-1V no indication, 1V –6.5V <b>Green</b> , 6.5V – 9.5V <b>Orange</b> , >9.5V <b>Red</b>
Trim Adjustments	DC Offset, Bypass offset, Gain, all by 10 turn pot.
Output Attenuation	User defined by two resistor network.
Connectors	BNC in and out
Dimensions	100 mm x 160 mm x 20 mm. (Kemo 21 Series Rack 1 slot)
Power Input	+/- 15 V @ 100 mA (typical), + 5 Volt, + 20 Volt.

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

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