

- 8th Order Butterworth Filter Response
- Universal DIN Rail mounting
- Blue LED Power on indication
- Low or High pass filter
- Up to 3 frequency filter cut off settings
- Filter Bypass
- Frequency selection via external knob
- 10–30 VDC power input
- Standard Inputs: AC/DC, Single ended/differential, IEPE



The DR1200 DIN rail mounting signal conditioning and filter range are a fast, easy to install solution for many noisy signal environments and have been in use in manufacturing and production facilities globally for over 40 years. The combination of configurable input, gain, plus a flexible range of signal filters, make the Kemo DIN rail products an ideal choice for many signal conditioning applications.

The DR1200-K is a dedicated up to three frequency low pass filter with cut off frequencies specified by the user and selected via an external mounted rotary knob. The option to bypass the filter is also available as standard.

This particular model is fitted with a superior 8th order (8 pole) Butterworth filter, offering 48dB/Octave attenuation and the traditional -3dB at cut off. Other filter responses are available including Bessel and Anti-aliasing.

This model can be supplied with different factory set frequencies, contact us for details.

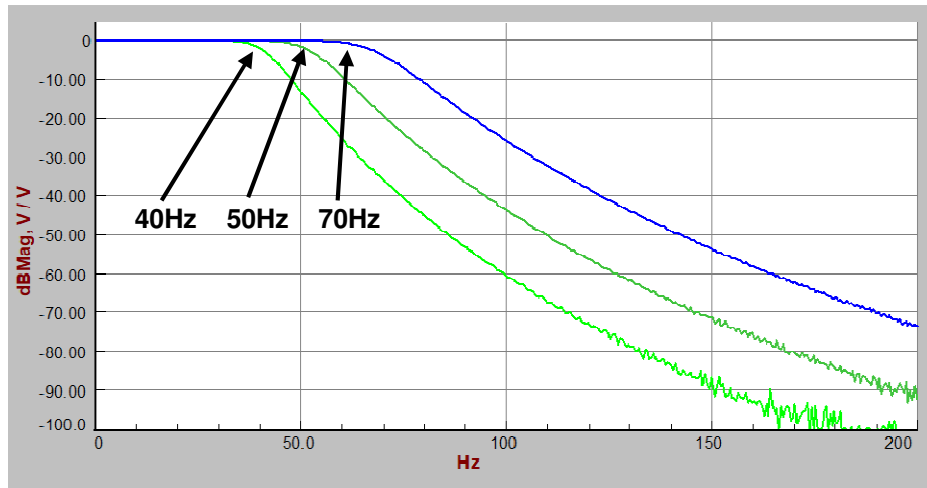
As with all DR1200 models, signal gain, input coupling and IEPE signal conditioning can be selected by on board jumpers when initially installed.



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Example 8th Order Low Pass Butterworth filter, cut off (f_c) 40Hz, 50Hz, 70Hz

Applications (*optional features required)

- Anti-aliasing filters
- Noise reduction in industrial measurements
- Signal reconstruction
- Data acquisition systems
- 4-20mA systems*
- Sound and Vibration testing
- Band limiting*
- Communications systems
- Signal optimization
- Charge Amplifier for industrial accelerometers*

Specification (typical values)

Power Input	10 – 30 Volts DC, 2.5 Watt. Polarity protected, isolated from signal path.
Connections	Screw terminals
Indicators	External Blue LED indicator shows correct power to filter
Operating Temperature	10 to 45 °C, non condensing.
Input Coupling	DC / AC (with dual line AC coupling for differential input)
Input Mode	Single ended / Differential / IEPE
Input Impedance	1 MΩ
Input Gain	x1, x2, x5, x10, x20, x50, x100, x200, x500, x1000. Set by on board jumpers.
Bandwidth	0 dB gain, > 500 kHz
Signal level	+/- 10 Volt pk-pk
Noise and THD	< 0.003% typical (depending on filter type, signal amplitude and frequency)
Output Impedance	47Ω
Outputs	2 Buffered voltage outputs. Optional 4-20mA output, current source (internal +24V source), and current sink.
Trim Adjustments	Offset and Gain. Multi-turn pots.
Dimensions	27 x 83 x 114 mm (1.1 x 3.3 x 4.5") excluding connectors and dial
Weight	180 gms (6.4 oz)
Fixing	standard 35mm and 15mm DIN rails

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

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