

End-of-Sale

EC6081

VP2000 Voltage preamplifier



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- 1Hz to 1MHz bandwidth
- Gain selection From 0 to 50dB
- Options of 12 high-pass filters and 12 low-pass filters
- Excellent low-noise characteristic

The VP2000 is a 1MHz bandwidth voltage preamplifier designed for uses in conjunction with piezoelectric hydrophones.

VP2000 offers excellent low-noise performance over the entire frequency range; gain selections in 6 levels from 0 to 50dB.

A range of 12 high-pass and 12 low-pass filters are available, - these allow ideal band pass filter settings.

The VP2000 has a high input impedance which allow the measurements at frequencies below 1Hz with even very small hydrophones sensor capacities.

TECHNICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Input: | |
| Impedance: | >100M-Ohm's |
| Max. level: | 2.4Vrms at 12V supply |
| Output: | |
| Impedance: | 10Ohm//100µF |
| Max. level: | 2.4Vrms at 12Vdc 5.4Vrms at 24V supply |
| Max. load: | 10nF (100m cable) |
| Gain: | |
| Gain settings, 6 steps dB: | 0-10-20-30-40-50 |
| Bandwidth | |
| Frequency range | -3dB 0.5Hz to 0.5MHz |
| with 20dB gain: | -6dB 1MHz) |
| Noise: | |
| Power spectrumsdensity noise | 20nV/√Hz (at 1kHz) |
| Hi-Pass Filters: | |
| -3dB @ Hz (6dB/oct): | 1-10-50-100-500-1k-5k |
| Lo-Pass Filters: | |
| -3dB @ Hz (6dB/oct): | 1k-5k-10k-20k-25k-50k |
| Power supply: | |
| Voltage nominal: | 12Vdc (min. 10Vdc, max. 30Vdc) |
| Current quiescent: | 15mA @ 12Vdc |
| Enclosure case, dimensions: | 20mA @ 24Vdc |
| Accessory included: | 125, 80, 60mm. (l w, h) (Splash proof aluminum box) |
| Accessory available: | Supply cable TL8088 for laboratory. Vdc supply. |
| | See page 3 |

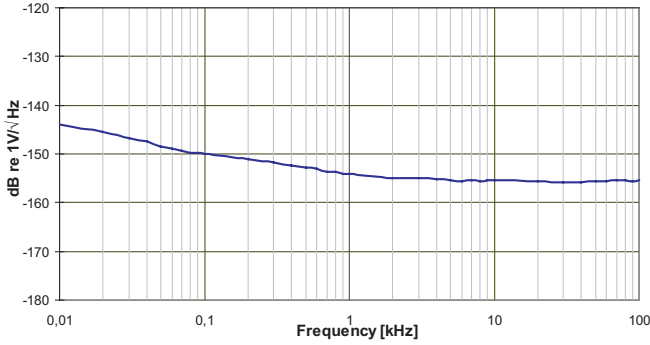


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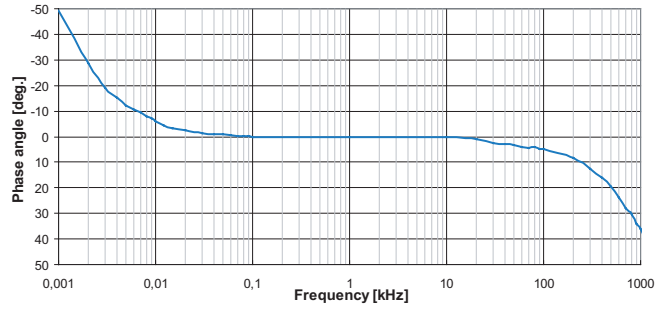
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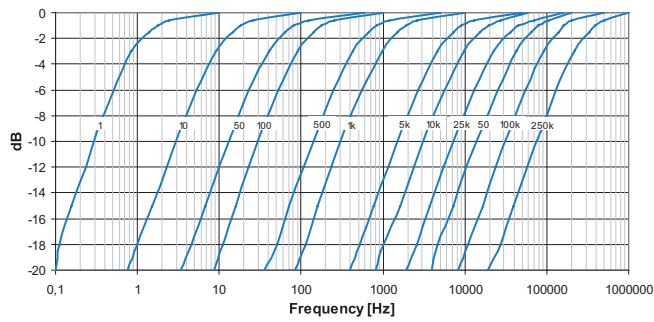
Noise power density spectrum re input
 Input load 1nF, gain 0dB, 1Hz filter



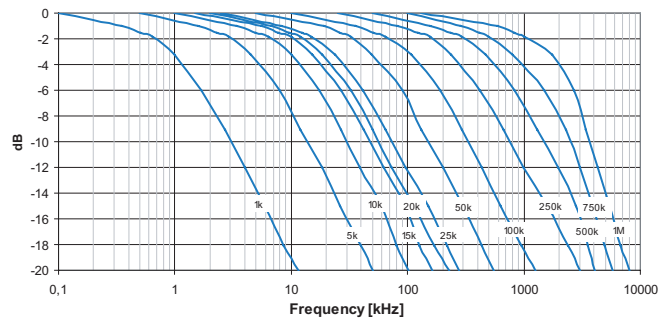
Phase shift
 With 1 Hz filter at 0dB and 0dB gain



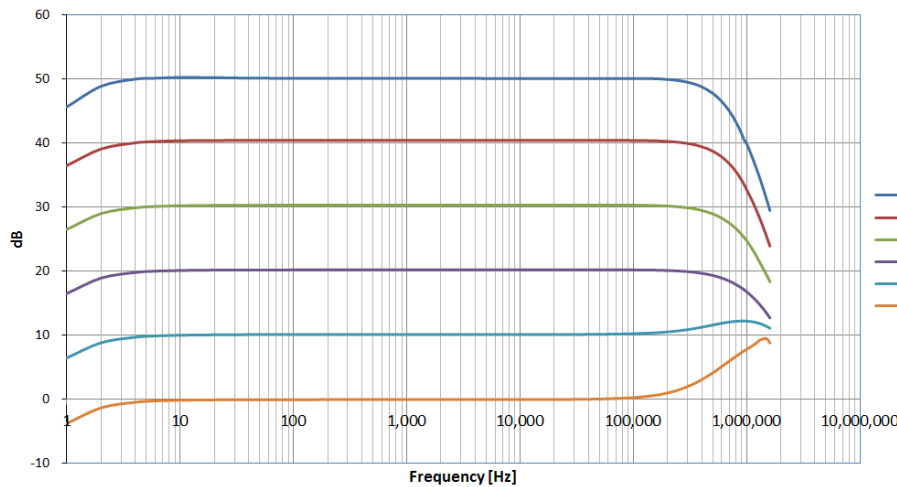
High Pass filter characteristics



Low Pass filter characteristics



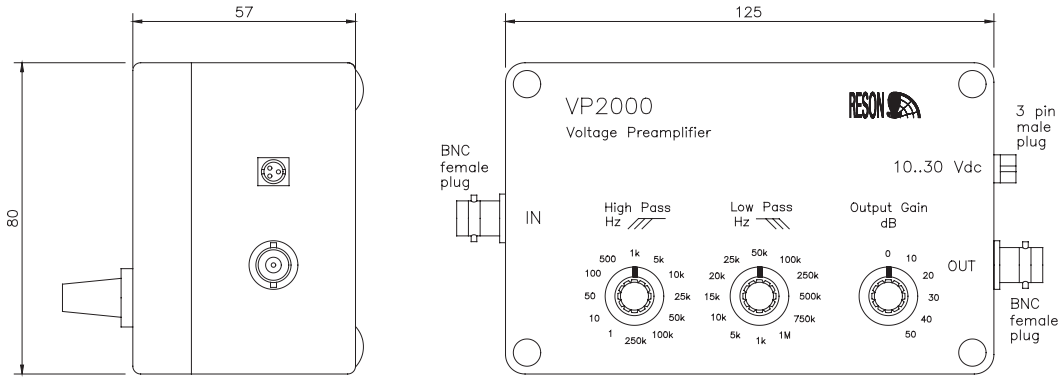
VP2000- Gain versus frequency



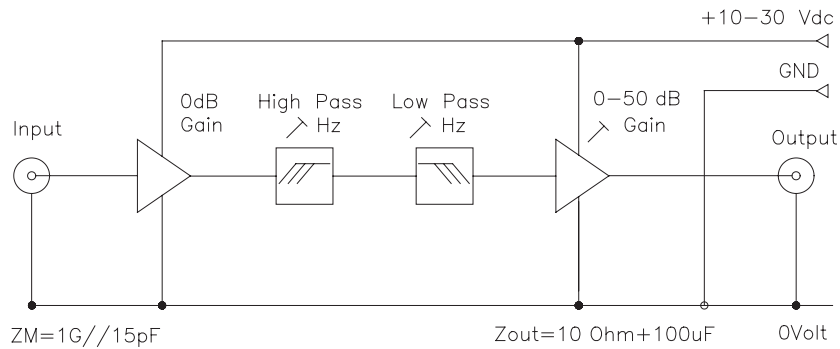
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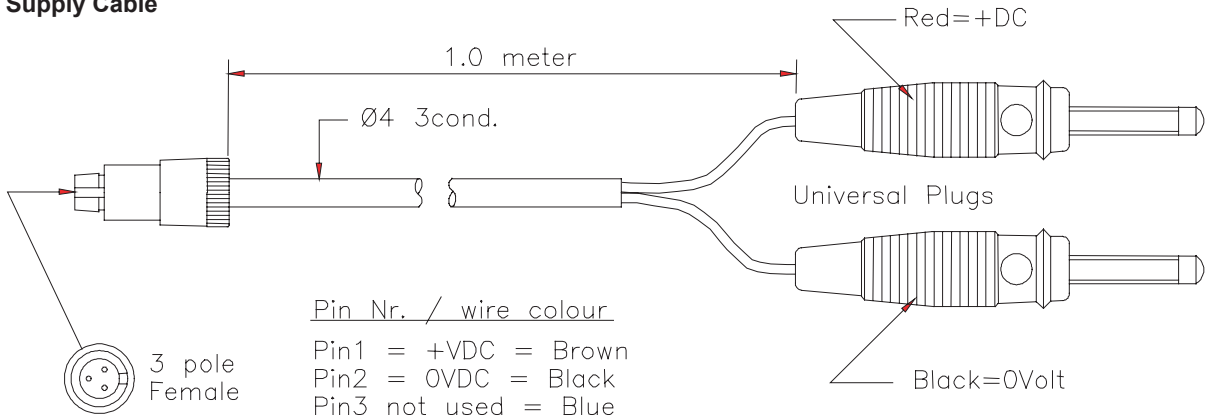
Outline dimensions and layout



Functional Block Diagram



TL 8088 Supply Cable



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