# Chapter 22
# Specifications
# Viper 4040

**(Revision 2, Aug 2007)**

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|---|---|---|
| **ACCURACY** | **Vibration Amplitude** +/-5%, 0-190 IPS with 20 mV per IPS sensor | |
| | **Frequency Range** 0 -30K Hz per channel | |
| | **Tachometer Inputs** +/-. 01%, 150-32,000 RPM | |
| **MICROPROCESSORS** | 5 | |
| **MEMORY** | 32 MB | |
| **POWER SUPPLY** | **Type** Rechargeable Nickel Cadmium (NiCd) Battery<br>or<br>Rechargeable Nickel Metal Hydride (NiMH) Battery | |
| | **Operation Time** Approximately 8 Hours – NiCd<br>Approximately 10 Hours - NiMH | |
| | **Voltage** 12 V DC Battery or 14-28 V DC ships power | |
| | **Charging Time** Fast charge approximately 4 hours, Trickle charge 10-12 hours | |
| **PHYSICAL** | **Height**<br>**Width**<br>**Depth**<br>**Weight** | 9.75"<br>10.5"<br>5"<br>~7.5 lbs. |
| **AC INPUT** | The data acquisition system is capable of measuring<br>AC values to +/- 1.55 volts. | |
| **UNCONDITIONED TACHOMETER INPUT** | Tachometer signal processing electronics are capable of adjusting the full-scale input range to handle any available sensor for measuring speed. Adjustment of the tachometer conditioning electronics is performed automatically and requires no user intervention. The tachometer circuitry can detect speeds up to 32,000 RPM. | |
| **SENSOR TYPES** | The analyzer will accept any vibration signal input (acceleration, velocity, or displacement.) The input is then displayed as collected or integrated to any other vibration unit. The vibration input will accept any voltage - generating sensor (must have external charge converter when in charge mode) and will supply power to the sensor when required. | |
| **ANALYSIS RANGE** | Anti-aliasing filters are used with a Fast Fourier Transform (FFT) to accurately transform data from the time to the frequency domain. The analyzer will perform FFT resolutions of 100,200,400,800, 1600, 3200, and 6400 lines. | |