

## 'Green Panel' Vibration Monitor Modules



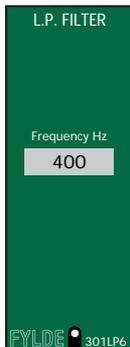
**Tracking Filter** **FE-3051-TF**

The FE-3051-TF is a frequency controlled tracking bandpass filter with a tracking range of 50:1 available in 10-500Hz, 20Hz-1kHz and 30Hz-1.5kHz ranges. The tracking filter may be connected via a Tracking Ratio Adaptor (FE-3061-TA) to be centered at harmonics of the rotational speed. The filter gives an AC output at 2.5Vpk F.S., and also a rectified and filtered DC output at 10 V DC F.S.



**Tracking Ratio Adaptor** **FE-306-TRA**

The Tracking Ratio Adaptor satisfies the requirement to tune the system's FE-3051-TF tracking filters to harmonics which may be fractions or multiples of a fundamental frequency. This unit accepts the fundamental frequency input from a tachometer transducer which may be a magnetic pick-up or other transducer type. It provides optical isolation and synthesizes an appropriate harmonic frequency from multiply/division factors set by banks of on board switches.

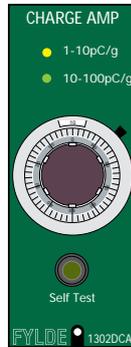


**Low Pass Filter** **FE-301-LP6**

Fixed, user specified frequency LP filter. The pass band is unity gain with frequency response 6 pole Butterworth with minimal in band ripple.

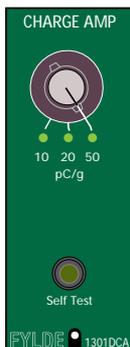
(Not Illustrated)  
**High Pass Filter** **FE-301-HP6**

Fixed, user specified frequency HP filter. The pass band is unity gain with frequency response 6 pole Butterworth with minimal in band ripple.



**Differential Charge Amp** **FE-1302-DCA**

An internal switch and front panel dial sets charge sensitivity range. A precision integrator provides a velocity output in addition to the acceleration output. The acceleration output is scaled at 10 mV / g and the velocity output is scaled at 100mV / in/s. A front panel control allows the module to substitute the system self test signal for the input signal providing through calibration.



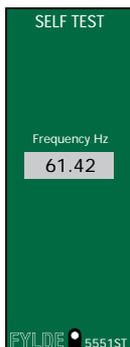
**Differential Charge Amp** **FE-1301-DCA**

This module may be set to an input range of 10, 20 or 50 pC/g. A precision integrator provides a velocity output in addition to the acceleration output. The acceleration output is scaled at 10 mV / g and the velocity output is scaled at 2 mV RMS / mm/s (peak). A front panel control allows the module to substitute the system self test signal for the input signal providing through calibration.



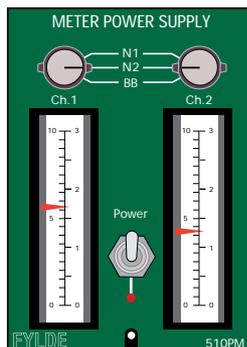
**Range Change / Integrator** **FE-554-IRI**

The FE-554-IRI incorporates scaling and integrator functions to provide both velocity and displacement outputs in imperial units (in/s and mils). Systems requiring scaling in metric units (mm/s and  $\mu\text{m}$ ) may use the alternative FE-554-IRM module. The module gives an AC output at 2.5Vpk F.S., and also a rectified and filtered DC output at 10 V DC F.S.



**Self Test Module** **FE-5551-ST**

This module produces a precision sine wave simulating a velocity and displacement signal. This signal is routed directly to the input of the system's charge amplifiers allowing complete system validation and calibration. The signal is also routed to the Tracking Ratio Adaptor(s) allowing stable self test outputs to be generated by the Tracking Filter(s).



**Meter Power Supply** **FE-510-PM**

This module incorporates the system power supply for all modules in the system. Two indicating meters enable monitoring of N1, N2 and Broad Band signal levels for two channels. The power supply operates from 115V or 230V ac 50/60Hz