Common sense…uncommon innovation

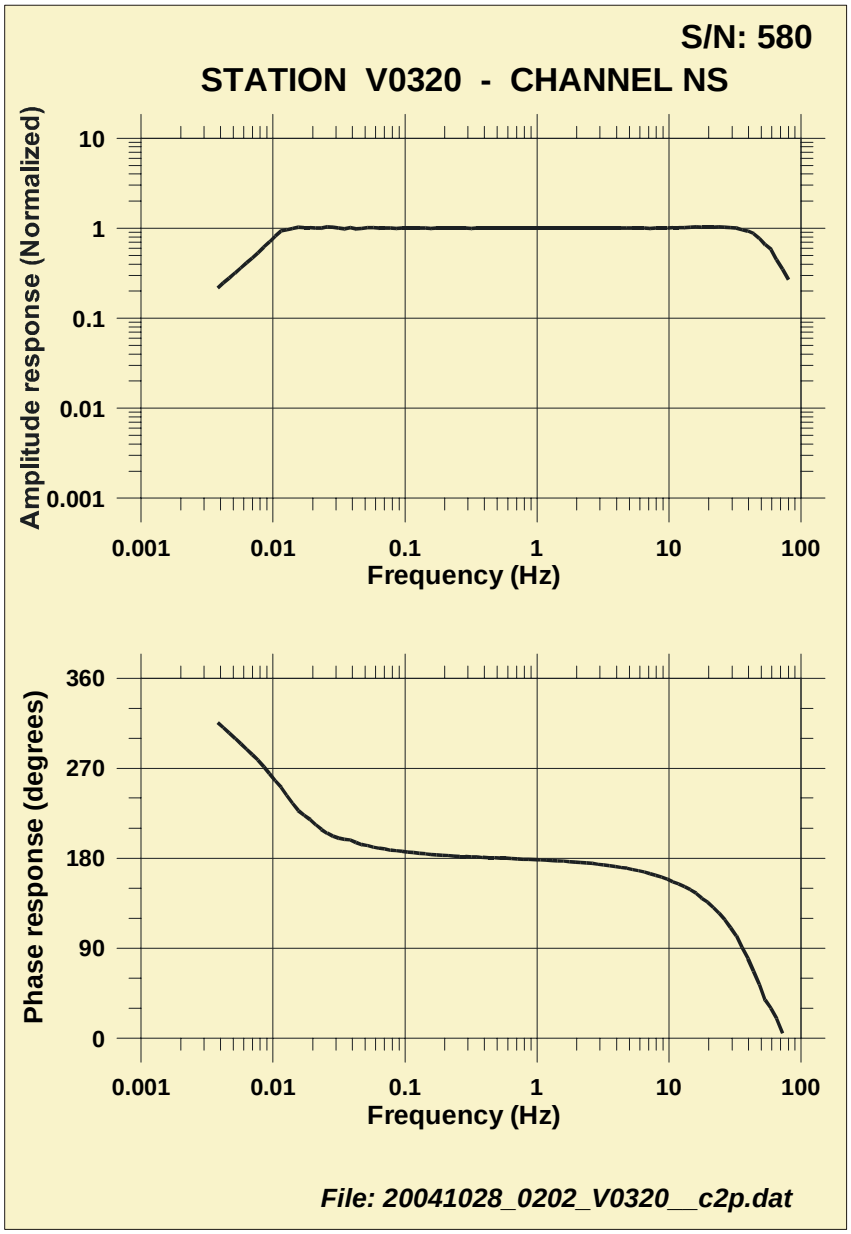
GEOTECH INSTRUMENTS, LLC

FEATURES

- **Easy operation**
- **Windows application**
- **Uses sine wave and random binary signals**

CALPLUS is a relatively new software package for fast and reliable seismometer calibration. It uses the signal generation capability of the **SMART-24R®** or **DL-24** digitizers/ recorders and the recording capability of both seismometer output and calibration input. By deconvolving the input from the output, the complex transfer function of the seismometers is computed, plotted, and saved in a time dependent database. The transfer function is given as normalized to unity at a certain period (*calper*). The calibration signal used in this case is a pseudo random binary time series, pulses of same amplitude but randomly varying durations. To compute the absolute sensitivity at the calibration period (and from there *calib*), a sine wave is used. **CALPLUS** can calibrate both short period and broadband seismometers, as well as accelerometers.

CALPLUS Calibration Package



CALPLUS Graphical Output

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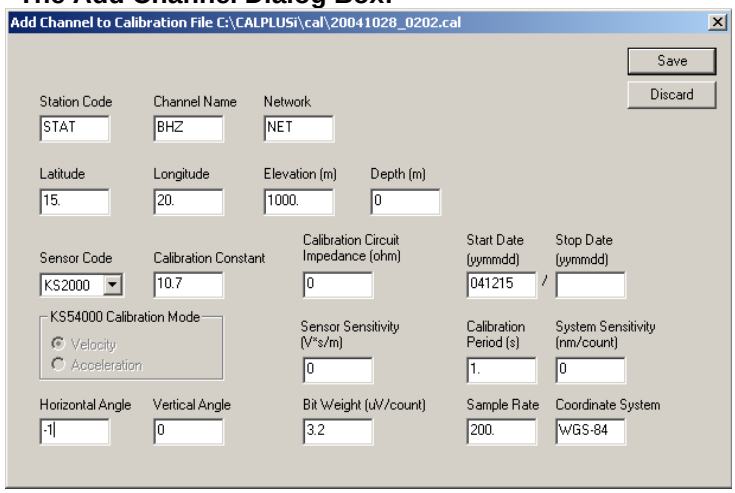
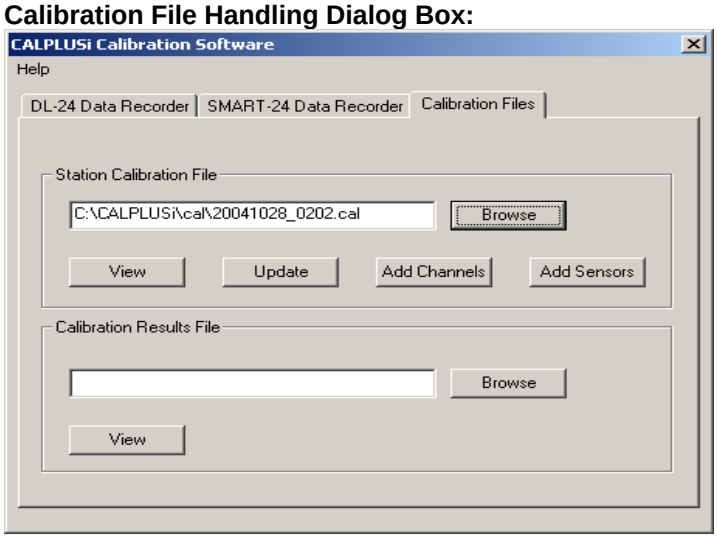
CALPLUS WINDOWS

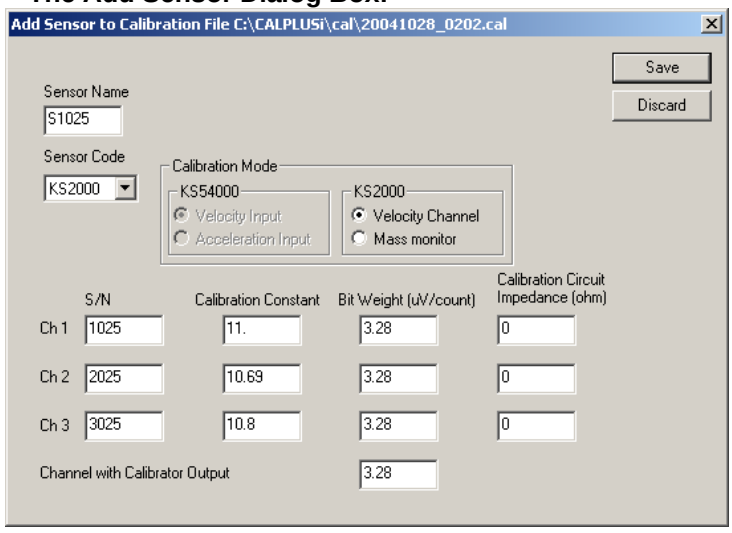
The Add Channel Dialog Box:



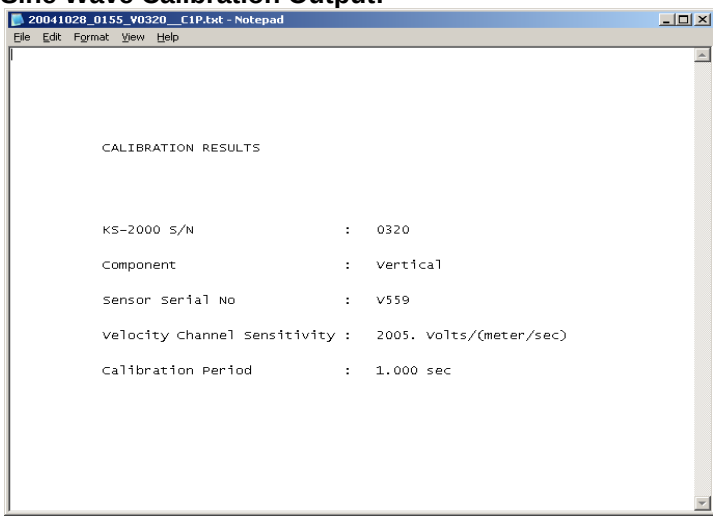
Calibration File Handling Dialog Box:



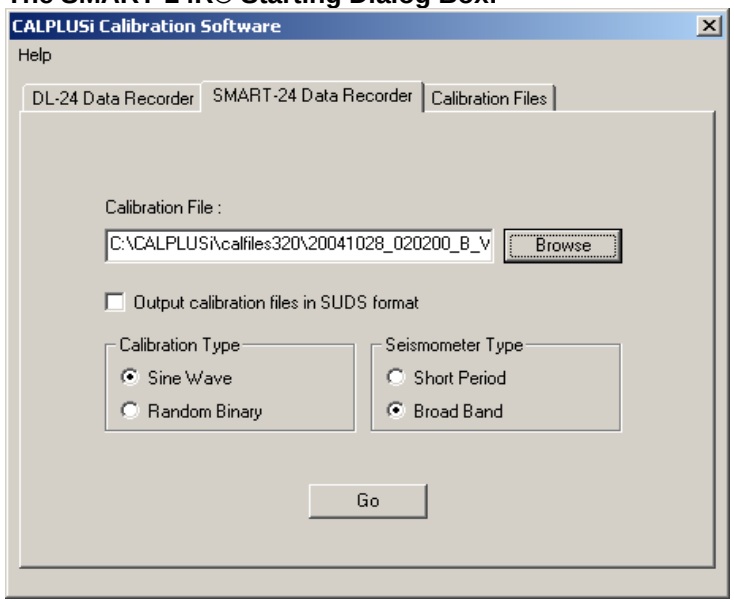
The Add Sensor Dialog Box:



Sine Wave Calibration Output:



The SMART-24R® Starting Dialog Box:



The DL-24 Starting Dialog Box: