

CLARKE - HESS MODEL 5500-2

DIGITAL PHASE STANDARD

SIMPLE TO USE • EXTREMELY ACCURATE • NIST TRACEABLE



- 1 m° Phase Resolution
- 5 m° Phase Accuracy
- 1 Hz to 200 kHz
- Phase Accuracy Maintained for 1000:1 Amplitude Ratios
- 50 mV to 120 V rms Outputs
- Amplitude Accuracy 0.3% to 100kHz
- -80 dB Typical Distortion

EXTREMELY VERSATILE

The combination of excellent phase accuracy, excellent amplitude accuracy and low distortion from each channel make the Model 5500-2 an ideal source for calibrating Phase Meters, Vector Voltmeters, broadband Watt meters and Power Analyzers, and other Phase Sensitive Instruments.

USER FRIENDLY

Only single keystrokes on clearly labeled keys are required to enter all of the parameters into the Model 5500-2. A large bright display shows Phase, Frequency and both output Amplitudes at all times.

CONTINUOUS PHASE CALIBRATION

The Model 5500-2 contains an Autozero function which measures the output phase at $\pm 90^\circ$ and makes an internal correction to remove any phase errors between the two output channels. The 0.25 second Autozero operation is activated automatically each time an amplitude or frequency is changed. It may also be activated manually.

DIGITAL PRECISION

Both output sine waves are generated digitally with the result that the basic parameters of Phase and Frequency require no adjustments to maintain their superior accuracy. Only the output amplitudes are internally adjustable.

LOAD IMMUNITY

The extremely low output impedance of the Model 5500-2 coupled with its ability to Autozero with an external load in place, makes the phase accuracy of the instrument completely insensitive to loading.

EXTENSIVE SELF TEST

The Model 5500-2 has an internal SELF TEST capability which checks the output frequency for all frequency ranges, checks all of the digital sine wave generation circuitry, checks the output levels of all amplitude ranges for both channels and checks the Autozero function. If an error is found it is reported in a fashion that leads to quick repair and restoration of the instrument to service.



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