



# Wayne Kerr CORPORATION

22 Frink Street, Montclair, New Jersey 07042 • (201) 746-2438

Innovations in Instrumentation ■ Measurement ■ Analysis ■ Synthesis ■ Control

## SR268 Combined Source & Detector

for use from 100kHz — 100MHz



- Single Dial Tuned System . . . Tunes Source & Detector at Same Time in One Operation
- Ideal Companion Instrument to Wayne Kerr R. F. Bridge B601, VHF Bridge B801B and Precision R. F. Bridge B201

Ganged tuning of source and detector from 100kHz — 100MHz is achieved simultaneously in one operation with the SR268 and its single dial tuned system. Under other systems it is necessary to tune the source to a specific frequency and then to do the same with the detector.

SR268 push-button attenuators give independent variation of output level and detector sensitivity. A null meter is built-in.

Accurate tuning is assured by open scales (nine bands) and short-term frequency stability of 0.01%.

Output level is 2V rms ( $75\Omega$ ) with attenuation to  $-39\text{dB}$  in 3-dB steps. Sensitivity is from  $1\mu\text{V}$  or better (see specifications) with the input attenuator giving 4 steps of 20dB. Each step adjusts function of the a.g.c. circuits, insuring rapid location of balance.

Simplicity of operation provided by ganged tuning is furthered by incorporation of common-mode rejection transformers in the input and output networks, reducing any interference or cross-talk from unwanted signals. Narrow bandwidth and high rejection of second harmonic minimize standing indication and insure true null location. Also operable simultaneously from an external nine-volt battery and a six-volt battery for pilot light indications, SR268 is thus ideally suited to field work. ►

## SPECIFICATIONS

### Frequency Range: 100kHz to 100MHz in 9 bands:

BAND 1	100kHz	—	216kHz
BAND 2	216kHz	—	465kHz
BAND 3	465kHz	—	1000kHz
BAND 4	1.00MHz	—	2.16MHz
BAND 5	2.16MHz	—	4.65MHz
BAND 6	4.65MHz	—	10.0MHz
BAND 7	10.0MHz	—	21.6MHz
BAND 8	21.6MHz	—	46.5MHz
BAND 9	46.5MHz	—	100MHz

### Frequency Accuracy:

BAND 1 — BAND 8	±2% of indicated value
BAND 9	±3% of indicated value

### Frequency Stability:

Short Term	±0.01% for interval of 10 Minutes
Long Term	±0.1% for interval of 60 Minutes
Pulling	<0.1% for all load conditions when $ Z  > 10$ Ohms

### Frequency Discrimination:

Visual	on dial ±1%
Maximum	using a suitable external frequency monitor, ±0.01% or better

### Oscillator Output Level:

Maximum output into 75Ω.	BANDS 1 — 7	2V rms
	BAND 8	1V rms
	BAND 9	0.5V rms
Output Level Control 39dB in 3dB steps (75Ω)		

### Detector Sensitivity:

Maximum input required for 10% meter deflection:		
BANDS 1 — 6	$1\mu\text{V} \times (\text{fMHz})^{1/2}$	
BANDS 7 — 8	10μV	
BAND 9	30μV 46.5MHz — 70 MHz	
	20μV 70 MHz — 90MHz	
	10μV 90 MHz — 100MHz	
Input Level Control — 4 Steps of 20dB (nominal)		

### Standing Meter Deflection:

With no external leads <5% f.s.d. at all frequencies

### Detector Bandwidth (—3dB):

BANDS 1 — 7	<2%
BANDS 8 — 9	<3%

### Power Requirement:

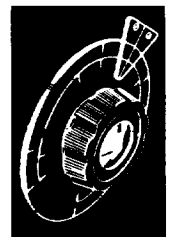
110 or 200-250V, 50-60Hz (Or 130mA at 9V, 1A at 6V d.c.)

### Dimensions:

17 in. wide x 6½ in. high x 12 in. deep (43 x 16.5 x 31 cm.)  
Weight 27.5 lb (12.5 kg)

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**Geist** company

REPRESENTED BY: **w. k.**

LOS ANGELES AREA  
P.O. Box 5004  
Glendale, Calif. 91201  
Phone: (213) 245-9501

SAN FRANCISCO AREA  
P.O. Box 746  
Cupertino, Calif. 95014  
Phone: (408) 253-5433 (San Jose)  
Phone: (415) 968-1608 (Mt. View)