

# COMPETITION

## Win a Welz RF Power Meter



*Whether you are QRO or QRP, an accurate SWR/power meter is a necessity. In this month's competition, we have two of the latest devices from Welz, as marketed by Waters and Stanton of Hockley, Essex. The SP420 retails at £69 and the SP220 at £59. The prizes measure PEP as well as SWR and RMS power — so you can be sure of your SSB output whilst transmitting!*

What do you know about RF power measurement!.

1. If a CW transmitter is measured by an RF ammeter and found to be putting 0.5A into a 50 ohm dummy load, what is the mean output power?  
(a) 12.5W (b) 25W (c) 50W
2. What is the maximum power recognised as QRP by the G-QRP Club?  
(d) 5W (e) 8W (f) 10W
3. On what technical development is the operation of an SWR meter based?  
(g) Absorption wavemeter (h) Wobbulator (i) Wheatstone bridge
4. If 62.5W produces an S7 signal report, what will reducing power down to 1W give, if the receiving station's 'S' meter is accurate?  
(j) S2 (k) S3 (l) S4
5. Under what conditions will an RF ammeter enable the calculation of true power in a transmission line?  
(m) under any conditions (n) when the line is correctly matched  
(o) when the line is terminated
6. When using a two-tone test signal into an SSB transmitter, 400W PEP is equivalent to a mean RF power of how much?  
(p) 150W (q) 200W (r) 230W

Welz SP220 and SP420 features:

- ★ cover 1.8 to 200MHz and 140 to 525MHz respectively with a flat frequency response.
- ★ scale is selectable from 2, 20 or 200W for the 220

and 4, 20 or 200 for the 420.

- ★ remote RF sensor enables meter to be positioned for maximum operator convenience.
- ★ 12V DC operation with illuminated meter.

Complete fully and carefully. If you are the winner, this will act as a label for your prize. Post to Waters and Stanton Meter Competition, Ham Radio Today, No. 1 Golden Square, LONDON W1R 3AB. Closing date: first post, 1st October, 1985. Don't forget to follow the advice in the How To Enter section, including writing your choice of the answers on the back of the envelope!

Name .....

Address .....

post code .....

Your choice of question answers ie B, D, N etc. ....

Please tick the box for the model you would prefer.

SP220 ☐

SP420 ☐

### How To Enter

Look at the questions nearby which are intended to test your knowledge of RF power measurement. Each question has a number of possible answers. Choose which you think are the correct answers and write them in sequence on the coupon below. For example, if you think the answer to question 1 is B and question 2 is D, your sequence will begin B, D...

**IMPORTANT:** write your choice of the order on the back of your envelope in addition to the coupon. Send your entry to Waters and Stanton Meter Competition, Ham Radio Today, No. 1 Golden Square, LONDON W1R 3AB. Closing date is first post on 1st October. '85.

Complete the coupon fully and clearly — if you are the winner, this will be used as a label. All correct entries will be placed in the HRT competition hat box and the winning entry drawn by the lovely (?) Julie. You may enter as many times as you like, but each entry must be on an official coupon — not a copy — and sealed in a separate envelope.

### The Rules

Entries will not be accepted from employees of Argus Specialist Publications, Waters and Stanton Electronics Ltd. or Garden City Press. This restriction also applies to employees' families and agents of the companies. The 'How To Enter' section forms part of the rules. We will try to ensure the two prize winners receive their stated preference of model.