



SPECTRADYNAMICS, INC.



**HAND HELD RF POWER METER
RFPWR
OPERATING MANUAL**

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RFPWR Features



- *RF POWER range:
 - 25 TO +25 dBm
- *Frequency range:
 - 1MHz to 2GHz
- *Accuracy:
 - ± 0.5 dBm from 1MHz to 1GHz
 - ± 1.0 dBm from 1GHz to 2GHz
- *Absolute and relative RF power measurements
- *Calibration option

RFPWR Operating Instructions



The RFPWR is a hand-held RF Power Meter, that can be used to measure power from -25 dBm to $+25$ dBm in a frequency range from 1MHz to 2GHz. The RFPWR can provide absolute power measurements as well as relative power measurements. All functions are controlled with a multifunctional button, labeled ON/OFF.

To turn on the RFPWR, press the ON/OFF button once. The unit will turn on and start an absolute power measurement (displays: RF POWER). Pressing the button again will have the RFPWR display different options to be selected: OFF, REL MEASUREMENT, HOLD. In order to select any of these options, press the button while the desired function appears on the display.

Selecting the REL MEASUREMENT option allows the measurement of power relative to a measured reference level. To measure the reference level connect the RFPWR and press the button when ready. (displays: MEASURE REF). After the reference level is measured the RFPWR will display the relative power measurements. Another button press exits the REL MEASUREMENT mode.

Selecting the HOLD function stores the power level reading at the next button press. To return to normal operation press the button again.

The RFPWR can be calibrated using a potentiometer accessible with a small screwdriver from the back of the RFPWR. To calibrate the RFPWR connect it to a 0 dBm source (within the frequency range of operation) and adjust the potentiometer until the value displayed is also 0 dBm. To turn off RFPWR simply press the button for about 3 seconds.

Battery



The RFPWR requires a size AA 3.6V battery for operation. The suggested battery is Tadiran TL-2100. The battery cover is removed by sliding to the side of the unit.

Caution!

Inserting the battery backwards will damage the unit and void all warranties.

Warranty



The RFPWR is warranted to be free of defects under normal operating conditions, as specified, for one year from date of original shipment from SpectraDynamics, Inc (SDI). SDI's obligation and liability under this warranty is expressly limited to repairing or replacing, at SDI's option, any product not meeting the said specifications. This warranty shall be in effect for one (1) year from the date an RFPWR is sold by SDI. SDI makes no other warranty, express or implied, and makes no warranty of the fitness for any particular purpose. SDI's obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or consequential damages or delay. Any improper use, operation beyond capacity, substitution of parts not approved by SDI, or any alteration or repair by others in such manner as in SDI's reasonable judgement affects the product materially and adversely shall void this warranty. No employee or representative of SDI is authorized to change this warranty in any way or grant any other warranty.

