



## SERIAL COMMANDS FOR /R MODELS

Serial Command	Function
F0 xx .xxxxxxxxxxxx	Set Frequency in MHz to nearest 1 $\mu$ Hz. Decimal point required.
P1 N	Set Phase. N is an integer from 0 to 16383. Phase is set to $N*360^{\circ}/16384$ or $N*\pi/8192$ radians. Sets the relative phase of the synthesized output sine wave. This is useful for adjusting relative phase after the Rubidium has obtained lock.
Vi N	Set voltage level of output. N can range from 0 (off) to 4095 (no decimal point allowed). Voltage level is scaled to $N/4096$ . If $N > 4095$ , the scaling is turned off and the output is set to maximum.
E x	Serial Echo Control. x=D for Echo <b>D</b> isable, x=E for Echo <b>E</b> nabled. Default is <b>E</b> nabled.
S	Save current state into EEPROM and sets valid flag. State saved is used as default upon next power up or reset.
R	Reset. This command resets the unit. EEPROM data is preserved and, if valid, it is used upon restart. This is the same as cycling power or toggling the open collector RES* line on the connector.
CLR	Clear. This command clears the EEPROM valid flag and restores all factory default values.
QUE	Read present frequency, phase and status. Returns an 42-character string of internal settings, lock status and software revision number. Hexadecimal format.

### ORDERING INFORMATION:

<b>1450A</b>	Standard outputs, 10MHz, 1MHz, 100kHz. Auxilliary outputs can be set to these.
<b>1450A/01-nn</b>	Add synthesized outputs. nn=01, 02, 03 or 04. Frequency outputs are paired.
<b>1450A/01R-nn</b>	Add serial control of synthesized outputs. nn=01 or 02.
<b>1450A/01/T-nn</b>	As above, but outputs are TTL level into a 50 $\Omega$ series terminated load.
<b>1450A/02</b>	Customer specified configuration. Unique model numbers are assigned. Consult factory.