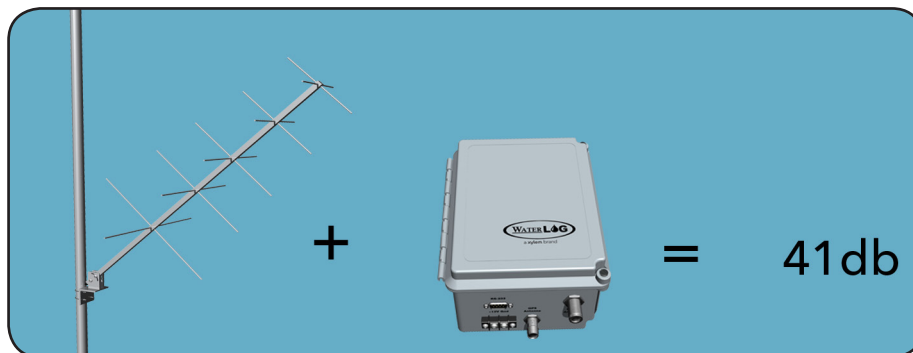


## SELECTING A GOES ANTENNA TYPE

The H-2221 V2 GOES radio was originally certified with our own 11db gain antenna. Some users have used the H-2221 V2 GOES radios with antennas with less gain. In this case the RF output power may not be enough to produce reliable transmissions. This option allows the user to select an 11db Yagi antenna, a 8 db Top Hat antenna, or a 5 db gain omni antenna.



This option is only available from the PC menu and is under the GOES H-2221 Diagnostic menu (option A). This option allows the user to select the antenna type in use. The antenna type determines the RF output power level of the transmitter. The H-2221 V2 transmitter will adjust its output power based on the antenna type selected in order to maintain the proper level of effective radiated power. The options are listed below:

Antenna Type	Antenna Gain	Radio Power (db)	Total Power (db)	Total Power (Watts)
Yagi	11db	30 db	41db	1.41 Watts
Top Hat	8 db	33 db	41 db	2.82 Watts
Omni	5 db	36 db	41 db	5.64 Watts

Note: The user must make sure this option is set correctly or the H-2221 V2 radio may transmit more power than is acceptable to the satellite. When looking at the raw received satellite transmissions, the power level must not exceed a level of 41.