



PV3000 - Antenna Tuning Unit

Part Number: SLF20200

SPECIFICATION SHEET

5055 Belmont, Beaumont, TX 77707
Phone +409.842.1717/1.800.648.6158 (Toll Free in the US)
Fax +409.842.2987
sales@southernavionics.com

Application:

The Southern Avionics PV3000 is a 3000 Watt continuous duty automatic antenna tuning unit. This unit automatically adjusts for changes in the antenna system utilizing a state of the art microcontroller system. This system also utilizes the Analog Devices AD8302 "Network Analyzer on a chip" device for analyzing gain and phase changes. The microcontroller system eliminates differences in tuning using a dual motor system with limit switches and active feedback monitoring included.

The PV3000 utilizes a multi-mode fiber optics interface for an active communication channel with the host transmitter. This interface eliminates signal distortion caused by coupling with copper wire.

The PV3000 has built in test equipment capabilities allowing the user to accurately monitor critical parameters within the PV3000 at the transmitter site or at a remote site via the internet using "Webwatch". There are several connection options to utilize the "Webwatch" program.

The PV3000 is contained within an IP66 class enclosure with built in circulation fans for heat transference.

FEATURE	SPECIFICATION
Frequency Range	190 - 535 kHz
Power Capacity	3000 Watts Continuous; 4000 Watts peak
Resistance Tuning Range	2 - 39 Ohms
Reactance Tuning Range	325 - 3500 pF capacitance
Power Requirements	85 - 264 VAC, 45 - 65 Hz
RF Input Interface	Type N Jack
ATU Mode	Automatic or Manual
Cabinet	IP66
Width	38 in. (97cm)
Height	38 in. (97cm)
Depth	26 in. (66cm)

Parameters Monitored:

- Forward Power
- Reflected Power
- Antenna Current
- ATU Temperature
- Circulation Fan Status
- +24V, +12V, and +5V Power Supply Monitor
- Parameter Control

*Information provided is subject to change without notice