

Para Dynamics™ by Valor®

6 DIGIT FREQUENCY COUNTER MODEL : PDC 253

Operation Manual

The PDC 253 counter is one of the best equipment investments, offering the finest in Quality, Performance and Value.

The PDC 253 frequency counter is a rugged, compact, high performance instrument designed to monitor radio frequencies in the 1 to 50 Mhz range. Its thru-line input system utilizes two SO-239 U.H.F. connectors allowing power levels of up to 500 watts R.M.S.

INSTALLATION

1. Connect the antenna load to the "antenna" connector (SO239) on the rear of the counter chassis.
2. Connect the transmitter to the "radio" connector (SO239) on the rear of counter chassis.
3. For D.C. operation connect the red + lead to a suitable 12 V.D.C. power source. The black lead is the ground connection.

CAUTION:

During transmitter frequency testing use a suitable dummy load to prevent "on air" interference.

SSB OPERATIONS

Single side band transmissions operate without a carrier until modulation occurs. Normal voice modulations display a nonstable amplitude and frequency, which will create an erratic indication on the frequency counter. This condition can be overcome by introducing a carrier or continuous tone when the transmitter is keyed.

EXAMPLE: C.W. side tone, inserting carrier or whistling a stable tone into the microphone. All tests should be conducted with a dummy load to prevent on the air interference.

SPECIFICATIONS

Frequency range1 MHz. to 50 MHz.
Input impedance50 ohms
Input sensitivity.....less than 1 watt R.M.S.
Max input power500 watts R.M.S.
Frequency stability ± 15 P.P.M. $10^{\circ} - 40^{\circ}\text{C}$
Accuracy ± 15 P.P.M. ± 1 count(L.S.D.**)
Frequency resolution100 Hz.
Gating speed12 sec. @ 100 Hz.
Power consumption.....250 ma. @ 12 V.D.C. 3.0 watts
Input voltage11 V. to 15 V.D.C.
DisplaySix digit $\frac{1}{2}$ " high seven segment
Red light emitting diodes.
Size1.6" (H) \times 5.1"(W) \times 5.5"(D)

** (L.S.D.) Least significant digit

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.