

NEW PRODUCT

DIGI-SCAN DS-400

As most of you know REDCO bit the dust a while back and their products soon disappeared from the market. Now what do you do when you need a UFO? Don't give up, DIGALOG TECHNOLOGY, INC. has built a unit called the DIGI-SCAN DS-400 which is the same as the UFO. Hook up and performance are identical, except for the elimination of fast scan and home channel buttons on the front panel.

The D.T.I. DS-400 system is designed to expand the receiver frequency range of many SSB Pll 40-channel transceiver systems now in use. The DS-400 is field programmable, which allows operation on different types of radios with one unit. The DS-400 automatically displays the receiver frequency with a 5-digit frequency monitor system. The operating frequency range of the receiver is now increased to a maximum of 28.000 MHz in 5 KHz steps. This gives the AM-SSB operator a total of 1200 channels. This system should be installed by a licensed technician only.

The DIGI-SCAN DS-400 will adapt to many SSB Pll 40-channel radios. These include the following PLL chips: D2824, MB8719/8734, 02A, UPD858, 145106, LC7120, SM5104, 40013, SBE Discrete, and others. The DS-400 can be installed to almost any PLL synthesizer provided the following conditions exist:

1. If a 10-meter conversion is intended, the VCO must not shift between transmit and receive.
2. As the VCO control voltage is increased, the radio operating frequency must also increase.
3. The VCO should have at least a 1.5 MHz range. (0-5V change on control voltage input to VCO).
4. The down mixer frequency output must not exceed 4 MHz.
5. The down mixer signal must have enough output signal to drive the DS-400.
6. The VCO output must NOT be doubled or tripled as this will cause 10 or 15 KHz steps.

If these conditions above are met, the DS-400 system should work on the receiver. The frequency range will be determined by the various circuits; i.e. bandwidth, sensitivity, etc.

Different types of radios have different frequency ranges. D.T.I. has developed a system whereby the user can tell if his radio is operating on the frequency displayed by the DS-400. The system is called an "out of lock" indicator. If, for any reason, the radio should go out of lock the first digit on the DS-400 will become an "L" instead of a "2".

CONTROLS AND FUNCTIONS:

SCAN SWITCH: A momentary toggle switch which controls the scan function. Push the scan switch down or up and hold for rapid changes in frequency. (10 steps/second)

STEP SWITCH: A momentary toggle switch which controls the frequency selection one step (5KHz) at a time. Push the step switch up or down and release for each frequency change desired.

SPECIFICATIONS:

Frequency Range.....25.995MHz to 28.000MHz in 5KHz steps
Readout.....1/2" high, 5 digit, 7 segment LED
Resolution.....Least significant digit = 1KHz
Power Consumption.....450 Ma at 13.8VDC (27.155)
Size.....1½" x 5" x 5½"
Scan Rate.....10 steps/sec.
Operating Temperature Range.....10° to 40° C
Storage Temperature Range.....-40° to 75° C

D.T.I. DIGI-SCAN DS-400 systems are manufactured as receiving systems only, and to use them for transmission in the United States of America is in direct violation of the Federal Communication Commission's rules and regulations.

!ORDER YOURS TODAY AND YOU WILL BE GLAD TOMORROW THAT YOU DID!

