## SPECIFICATIONS

## Frequency

Range:
specified 10 MHz decade, $0.1-100 \mathrm{MHz}$
(0.1-10, 10-20,...90-100 MHz)

Resolution: $\quad 1 \mathrm{~Hz}$ (optional, 0.1 Hz under remote-control only)
Accuracy
Control: same as frequency standard manual by 10-position dial; remote by TTL-level parallel entry BCD or GPIB (optional)


## PTS x10 FREQUENCY SYNTHESIZER

- 10 MHz bandwidth, configured to cover any specified decade $0.1-100 \mathrm{MHz}(0.1-10$, 10-20,...80-90, 90-100)
- 1 Hz resolution with DDS phase-continuous switching
- fully programmable, BCD or GPIB, with remote-only versions available.

The PTS $\times 10$ transfers the accuracy and stability of a frequency standard (built-in or external) to any output frequency within the configured 10 MHz decade specified by the user at the time of order (e.g., 20-30 $\mathrm{MHz}, 30-40 \mathrm{MHz}$, etc.). Additional optional fieldinstallable replacement modules allow easy and rapid reconfiguration to another selected decade.

NOTE:
PTS x10 shown for illustration in " M " and " R " cabinets.
Consult pages 28, 29 for full cabinet style listing.
Consult page 27 for cabinet mechanical specifications


## PHASE-CONTINUOUS SWITCHING

The PTS $x 10$ sets new standards by offering users a 2 MHz bandwidth of ultra-low phase noise and low spurious phase-continuous switching range. Furthermore, the 2 MHz bandwidth can be switchselected to span either even or odd MHz steps, guaranteeing phase-continuous coverage in the neighborhood of any selected output frequency.

## Example:

Consider the PTS $\mathbf{x 1 0}$ configured to cover the $40-50 \mathrm{MHz}$ decade.
With switch-selected even coverage, phase-continuous spans are: 40-41.999999, 42-43.9, 44-45.9, 46-47.9, 48-49.9 With switch-selected odd coverage, phase-continuous spans are: 39-40.999999, 41-42.9, 43-44.9, 45-46.9, 47-48.9

