



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

PTS Synthesizer Specifications

PTS 040 FREQUENCY SYNTHESIZER



- 0.1 MHz to 40 MHz
- +3 to +13 dBm output
- choice of resolution
- very low phase noise
- fast switching, 5-20 μ s
- fully programmable, BCD or GPIB
- modular flexibility, remote-only versions
- low power consumption, high reliability
- 7 decades of DDS resolution available (with phase-continuous switching)

NOTE: PTS 040 shown for illustration in "M" and "R" cabinets. Consult catalog for full cabinet style listing and mechanical specifications.

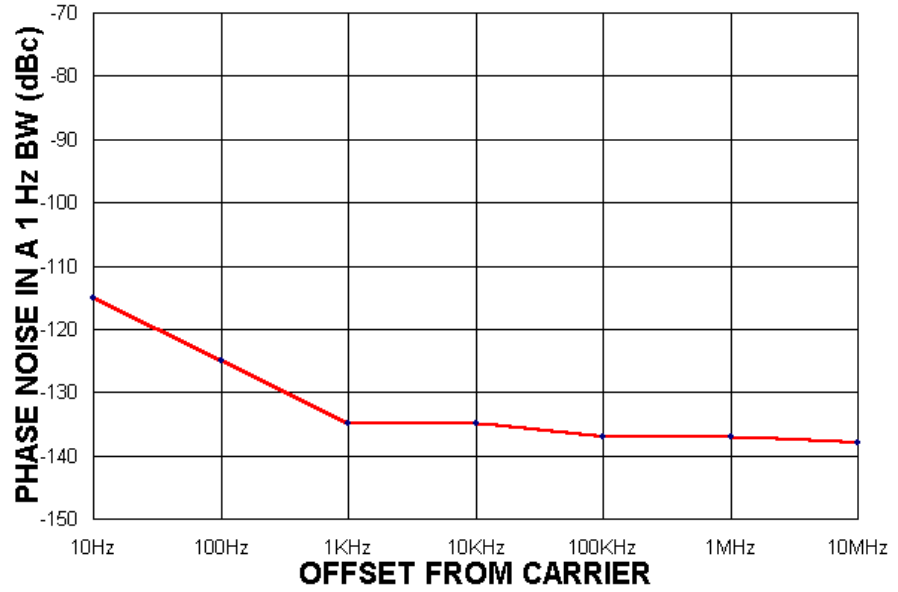
SPECIFICATIONS

Frequency	Range:	0.100 000 0 MHz to 39.999 999 9 MHz	
	Resolution:	0.1 Hz to 100 KHz, optional in decades	
	Accuracy:	same as frequency standard	
	Control:	manual by 10-position dial; remote by TTL-level parallel entry BCD or GPIB (optional)	
Switching Time		(to within 0.1 radian at new frequency)	
	10 MHz digit:	20 μ seconds	
	1 MHz - 0.1 Hz digit:	5 μ seconds	
Output	Level:	+3 to +13 dBm (1V max, 50 W), metered in dBm and volts(rms)	
	Flatness:	\pm 0.4 dB	
	Impedance:	50 W	
	Control:	manual by front panel control; remote by analog voltage	
Spurious		(at full power output, +13 dBm)	
Outputs	Discrete:	-75 dBc	
	Harmonics:	-35 dBc at full output (-40 dBc at lower level)	
	Phase Noise:	-75 dBc (0.5 Hz to 15 KHz) including effects of internal standard	
	\mathcal{E} (1Hz):	100 Hz/ -125 dBc, 1 KHz/ -135 dBc, 10 KHz/ -135 dBc, 100 KHz/ -137 dBc	
	Noise Floor:	-138 dBc/Hz	
Frequency Standard	Internal:	OCXO	or TCXO
		3×10^{-9} /day	1×10^{-8} /day
		$\pm 1 \times 10^{-8}$ /0-50° C	$\pm 1 \times 10^{-6}$ /0-50° C
		1×10^{-6} /year	2×10^{-6} /year
	External Drive:	10 MHz, 0.4 Vrms into 300 W ; 5 MHz, 0.5 Vrms into 300 W	
	Aux. Output:	10.000 MHz, 0.4 Vrms into 50 W	
		(Note: internal or external standard required for operation)	
General	Operating Ambient:	0 - 55° C, 95% R.H.	
	Power:	105 - 125V, 50 - 400 Hz, 40W (100, 220, 240V optional)	
	Dimensions:	19 x 5.25 x 18 inches (relay rack or bench cabinet)	
	Weight:	35 lbs.	

For units equipped with a **DDS-TLU option**, specifications are modified as follows:

DDS Option:	H	K
Phase-Continuous	100 KHz thru 0.1 Hz digits	10 KHz thru 0.1 Hz digits
Switching Range	(~1 MHz bandwidth)	(~100 KHz bandwidth)

Frequency Resolution:	0.1 Hz	0.1 Hz
Optional Phase Rotation:	0 - 360° in .36° steps	N/A
Switching Time	(within phase-continuous range) < 1 μs transient, 2 μs delay	
Spurious Discrete:	-65 dBc	-75 dBc
Outputs Phase Noise:	-65 dBc	-70 dBc
Pricing (USA domestic)	\$3,720 (100 KHz resolution) to \$5,565 (0.1 Hz resolution) plus any other options.	





Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com