## Data Sheet

# 20MHz DDS Sweep Function Generator with Arb Function

## Model 4045

The model 4045 DDS Function Generator is a must-have for anyone needing a low cost, full featured direct digital synthesis (DDS) function generator with arbitrary waveform capabilities. The 4045 has a menu-driven front panel interface that includes a large, easy-to-read graphical LCD display. Waveform parameter changes and data entry can be made using the rotary knob or via the built-in RS232 interface. The unit generates superb quality waveforms with high signal precision and stability. It provides sine & square wave outputs over the frequency range from 0.1 Hz to 20 MHz in one extended range (triangle/ramped wave outputs to 2MHz). Arbitrary waveforms can be edited from scratch or by modifying standard waveforms. A full range of triggering capabilities is available, including internal-external trigger source, gated and burst modes of operation.

Graphical LCD display

- 20MHz Frequency Range (sine & square only)
- Sine, Square & Triangle waveforms
- Arbitrary waveforms to 1,000 points
- Clean, precise DDS waveform generation
- Modulation in both AM & FM
- Lin or Log Sweep Function
- Adjustable Duty Cycle
- Adjustable DC Offset
- Bright informative LCD
- Free downloadable software

| Model | 4045 |
|---|---|
| Frequency Range | 0.1Hz to 20MHz (sine & square wave only) |
| Waveforms | Sine, Square, Triangle, Arbitrary, Ramp, Pulse |
| Amplitude | 10V p-p into 50Ω |
| Attenuation | -20dB +1dB |
| Offset | ± 4.5V into 50 Ω (amplitude dependent) |
| Distortion | DC-20KHz = -55 dBc |
| Square Rise/Fall Time | <18 ns (10% to 90%) into 50 Ω |
| Flatness | 0.5 dB at 1MHz (1 dB to 20 MHz) |
| Power Source | 90V-264V, 48-66Hz / 30 VA max |
| Dimensions (WxHxD) | 8.4 x 3.5 x 8.3" (213 x 88 x 210 mm) |
| Weight | 5.5 lbs, 2.5 Kg (approx.) |
| | ***One Year Warranty*** |
| Included Accessories: Manual, software CD, RS232 cable, power cord, test report and certificate of calibration | |

Technical data subject to change
© B&K Precision Corp. 2010
v011811

www.bkprecision.com
Tel.: 714.921.9095

B&K PRECISION
ELECTRONIC TEST INSTRUMENTS