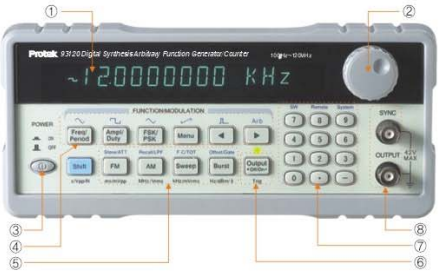
Digital Synthesis Arbitrary Function Generator/Counter

Protek 9300 Series

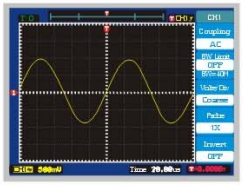
Each Part Names

① Output Display
② Variable Knob
③ Power On/Off S/W
④ Waveforms selective S/W
(Sine, Square, Triangle, Ramp, Pulse)
⑤ Modulation signal selective S/W
(AM, FM, FSK, PSK, Sweep, Burst)
⑥ Output On/Off S/W
⑦ Output value manual input S/W
⑧ Output Terminal



Various Waveforms

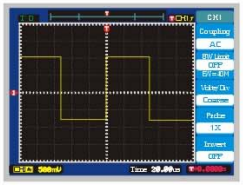
Output Waveform-1 (SINE)



SINE WAVE : 2V, 10KHz

1. Set the sine wave output of 9300
   - Power Voltage : Min 1mV ~ Max 20V
   - Frequency : Min 100μHz ~ Max 120MHz
2. Input the signal on DSO and press the auto key a time
3. Check the output signal of 9300

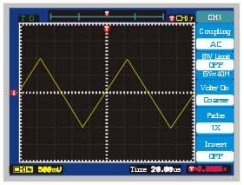
Output Waveform-2 (SQUARE)



SQUARE WAVE : 2V, 10KHz

1. Set the square wave output of 9300
   - Power Voltage : Min 1mV ~ Max 20V
   - Frequency : Min 100μHz ~ Max 120MHz
2. Input the signal on DSO and press the auto key a time
3. Check the output signal of 9300

Output Waveform-3 (TRIANGLE)



TRIANGLE WAVE : 2V, 10KHz

1. Set the triangle wave output of 9300
   - Power Voltage : Min 1mV ~ Max 20V
   - Frequency : Min 100μHz ~ Max 100kHz
2. Input the signal on DSO and press the auto key a time
3. Check the output signal of 9300

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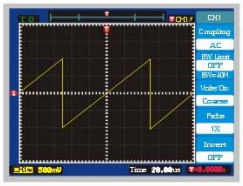
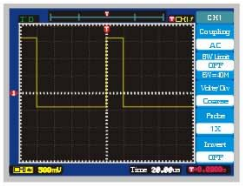
Output Waveform-4 (RAMP)



LAMP WAVE : 2V, 10KHz

1. Set the ramp wave output of 9300
   - Power Voltage : Min 1mV ~ Max 20V
   - Frequency : Min 100μHz ~ Max 100kHz
2. Input the signal on DSO and press the auto key a time
3. Check the output signal of 9300

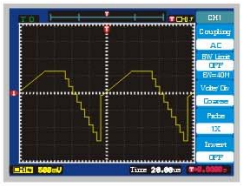
Output Waveform-5 (PULSE)



PULSE WAVE : 2V, 10KHz

1. Set the pulse wave output of 9300
   - Power Voltage : Min 1mV ~ Max 20V
   - Frequency : Min 100μHz ~ Max 100kHz
2. Input the signal on DSO and press the auto key a time
3. Check the output signal of 9300

Output Waveform-6 (ARBITRARY)



ARBITRARY WAVE : 27, STAIR

1. Set the arbitrary wave output of 9300 (1~27)
2. Input the signal on DSO and press the auto key a time
3. Check the output signal of 9300

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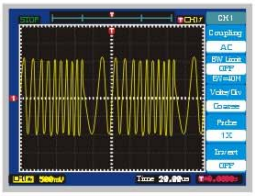
Protek

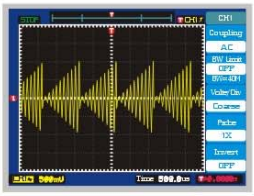
Waveform Modulation-7 (FM)



FM Modulation used by sine WAVE

1. Set the sine wave output of 9300
2. Set the FM modulation function (DEVIR, FREQ, WAVE, SOURCE)
3. Check output signal of 9300 through DSO display

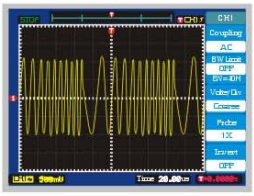
Waveform Modulation-8 (AM)



AM Modulation used by sine WAVE

1. Set the sine wave output of 9300
2. Set the AM modulation function (LEVEL, FREQ, WAVE, SOURCE)
3. Check output signal of 9300 through DSO display

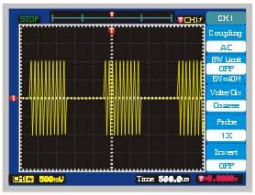
Waveform Modulation-9 (SWEEP)



Sweep Modulation used by sine WAVE

1. Set the sine wave output of 9300
2. Set the sweep modulation function (MODE, START-F, STOP-F, TIME, TRIG)
3. Check output signal of 9300 through DSO display

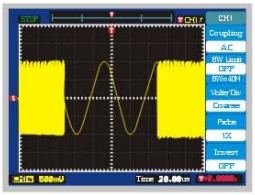
Waveform Modulation



Burst Modulation used by sine WAVE

1. Set the sine wave output of 9300
2. Set the burst modulation function (TRIG, COUNT, SPACE-T, PHASE)
3. Check output signal of 9300 through DSO display

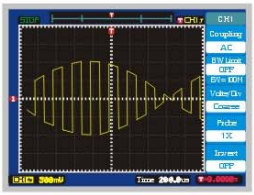
Waveform Modulation-11 (FSK)



FSK Modulation used by sine WAVE

1. Set the sine wave output of 9300
2. Set the FSK modulation function (START-F, STOP-F, SPACE-T, TRIG)
3. Check output signal of 9300 through DSO display

Waveform Modulation-12 (PSK)



PSK Modulation used by sine WAVE

1. Set the sine wave output of 9300
2. Set the PSK modulation function (P1, P2, SPACE-T, TRIG)
3. Check output signal of 9300 through DSO display

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