

# 100MS/s Single-Channel Arbitrary Waveform Generator

**DISCONTINUED**

## MODEL 8025



- Single-channel 100 MS/s waveform generator
- Multi-Instrument synchronization
- 14 Bit amplitude resolution, 18 Bit offset resolution
- 1 Meg word waveform memory, 4 Meg word memory, optional
- 1 ppm clock accuracy and stability
- Extensive modulation capabilities AM, FM, Arbitrary FM, FSK, Ramped FSK and Sweep
- Waveform sequencing with up to 4096 segments and sequences

- 10 Built-in popular standard waveforms
- DDS technology delivers extremely low phase noise signals
- GPIB and RS-232 interfaces
- ArbConnection software for easy waveform creation & control

The 8025 system breaks new ground in arbitrary waveform generator design. With its unprecedented combination of arbitrary generator and synthesizer, its versatility, its high resolution and wide frequency range, and its extremely good performance-to-price ratio, the 8025 offers a range of benefits that will facilitate work in many fields.

#### 100 MS/s Sample Rate

The 100 MS/s sample rate allows the vertical accuracy to be converted into excellent performance at high frequencies. This opens up many applications in communication, video and television, telecommunication, radar, and ultrasonics, for example.

#### 14 Bit Resolution

The 14-bit resolution provides 16,384 output levels. This means that even audio waveforms can be generated with excellent fidelity. It also allows video and other complex waveforms to be generated with small details superimposed on large signals, in order to test the response of receiving systems.

#### Bench Operation

Looking at the instrument as a simple function generator, there are eleven basic waveforms with adjustable parameters. These are sine, triangle, square, pulse, ramp, sinc, Gaussian, exponential up, exponential down, noise, as well as DC. All are accessible from the front panel.

#### 4 Meg Memory

The 8025 offers 1 Meg word (4Meg word optional) memory for arbitrary waveforms. Given the 14-bit resolution, the generator offers enormous power. In addition, the memory can be divided into as many as 4096 segments, which can be looped and linked in many different ways. Using 1 Meg word at 25 MS/s to generate a video signal, for example, the duration is 0.04 s, 25 Hz, even without any looping of repetitive elements.

#### Sequence Generator

When the sequencing facilities are invoked, the 8025 becomes truly unique. The memory segments can be linked and repeated in any

combination both manually and under programmed control.

In the automatic advanced mode, the complete sequence runs continuously and automatically under the control of a pre-programmed table. In the stepped sequence-advance mode, the current segment is looped continuously until a trigger is received, when the next segment is invoked. The single sequence advance mode runs the current segment once only, and then idles until the next trigger is received. There is even a mixed sequence mode in which each segment can be preprogrammed to run under either automatic-advance mode or in stepped advance mode.



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### Fast Data Transfer

Arbitrary waveform data may be quickly transferred to the 8025 via RS-232C or GPIB - IEEE 488.2 - using a very fast DMA mode.

### Sample Clock Modulation

One of the many attractive features of the 8025 is the sample clock modulation function. In a normal arbitrary waveform generator, to make a frequency modulated sinewave, you have to enter the complete mathematical function. Not so with the 8025: all you need to do is to generate the carrier signal, and then modulate the clock to obtain the required result. The sample clock modulation can be done by internal waveforms - sine, square, triangle, and ramp. Using downloaded arbitrary modulating waveforms, you can generate signals that would be difficult or impossible to define using an equation.

### Frequency Shift Keying

Frequency shift keying could be accomplished by using the facilities already mentioned, but the 8025 includes an FSK function to simplify operations. A TTL input is used to control the shifting.

As a further refinement, the 8025 offers a ramped FSK function, in which the rate of change of frequency is controlled by the ramp time parameter.

### Linear Logarithmic Frequency Sweep

A linear or logarithmic frequency sweep is offered, and of course the FM functions can be used to define more complicated variations.

### Triggering Facilities

However versatile the waveform generation systems are made, the need for external control of generation is vital. The triggering facilities of the 8025 match the generation functions in versatility.

In the simplest mode, signals are output continuously. The 8025 also offers the triggered mode, gated mode, external burst mode, and internal burst mode, all of which can use an external trigger signal or an internal trigger. The use of external sources to prompt the switching of segments has already been mentioned.

Any point in a wave can be designated as a start point. On receipt of a trigger, the wave starts at this point, runs to the end, restarts seamlessly at the beginning, and stops at the point before the trigger point.

Separate breakpoints are programmable in each channel, triggerable from SCPI commands via GPIB or RS-232C, or by signals at the trigger input.

### ArbConnection

Unlimited Source of Arbitrary Waveforms. With the ArbConnection software you can control instruments functions, modes and features. You can also create virtually an unlimited variety of test waveforms. Freehand sketch allows you to draw your own custom waveform for quick analysis of analog signals. You can use the built-in equation editor to create your own exotic functions. Add or subtract components of a Fourier series to characterize digital or analog filters or, inject random noise into a signal to test immunity to auxiliary noise.



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### Service and Support

Beyond providing precision Test & Measurement instruments, Tabor Electronics provides unparalleled service and support, and is continuously finding new ways to bring added value to its customers.

Our after-sales services are comprehensive. They include all types of repair and calibration, and a single point of contact that you can turn to whenever you need assistance. As part of our extensive support, we offer individualized, personal attention Help Desk, both online and offline, via e-mail, phone or fax.

Tabor Electronics maintains a complete repair and calibration lab as well as a standards laboratory in Israel and USA. Service is also available at regional authorized repair/calibration facilities.

Contact Tabor Electronics for the address of service facilities nearest you.

### Applications

For expert technical assistance with your specific needs and objectives, contact your local sales representative or our in-house applications engineers.

### Manuals, Drivers, and Software Support

Every instrument comes equipped with a dedicated manual, developer libraries, IVI drivers, and software. However, if your specific manual is lost or outdated, Tabor Electronics makes it possible to log-on to its Download Center and get the latest data "in a click".

### Product Demonstrations

If your application requires that you evaluate an instrument before you purchase it, a hands-on demonstration can be arranged by contacting your local Tabor Electronics representative or the Sales Department at our Corporate Headquarters.

### Three-year Warranty

Every Tabor Electronics instrument comes with a three-year warrantee. Each one has full test results, calibration certificate, and CD containing product's manual and complete software package. Our obligation under this warranty is to repair or replace any instrument or part thereof which, within three years after shipment, proves defective upon examination. To exercise this warranty, write or call your local Tabor representative, or contact Tabor Headquarters and you will be given prompt assistance and shipping instructions.

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# Specification 100MS/s Single-Channel Arbitrary Waveform Generator

## Model 8025



### STANDARD WAVEFORMS

**Waveforms:** Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC.

**Frequency Range:** Waveform dependent

**Source:** Internal synthesizer

#### SINE

**Frequency Range:** 100µHz to 50MHz

**Band Flatness:** 5% to 10MHz; 20%, to 50MHz

**Programmable Parameters:** Start phase, 0 to 360°

**Harmonics and non-related spurious at 5Vp-p:** <-55dBc for carrier frequencies 1MHz  
<-45dBc for carrier frequencies 5MHz  
<-40dBc for carrier frequencies 10MHz  
<-22dBc for carrier frequencies 50MHz

**Total Harmonic Distortion:** 0.1% to 100kHz

#### TRIANGLE

**Frequency Range:** 100µHz to 12.5MHz

**Start phase:** 0 to 360°

#### SQUARE

**Frequency Range:** 100µHz to 50MHz

**Duty cycle:** 1% to 99%

**Rise/Fall time:** <10ns

**Aberration:** <5%

#### PULSE

**Frequency Range:** 100µHz to 6.25MHz

**Adjustable Parameters:**

Delay	0% to 99.9% of period
Rise Time	0% to 99.9% of period
High Time	0% to 99.9% of period
Fall Time	0% to 99.9% of period

**Rise/Fall time:** <10ns

**Aberration:** <5%

#### RAMP

**Frequency Range:** 100µHz to 12.5MHz

**Adjustable Parameters:**

Delay	0% to 99.9% of period
Rise Time	0% to 99.9% of period
Fall Time	0% to 99.9% of period

#### SINC (SINE(x)/x)

**Frequency Range:** 100µHz to 3.125MHz

**"0" Crossing:** 4 to 100 cycles

#### GAUSSIAN PULSE

**Frequency Range:** 100µHz to 3.125MHz

**Time Constant:** 10 to 200

#### EXPONENTIAL FALL/RISING PULSE

**Frequency Range:** 100µHz to 6.25MHz

**Time Constant:** -20 to 20

#### NOISE

**Bandwidth:** 25MHz

#### DC

**Range:** -100% to 100% of amplitude

### ARBITRARY WAVEFORMS

#### SAMPLE CLOCK SOURCE

##### INTERNAL

**Range:** 100mS/s to 100MS/s

##### EXTERNAL

**Connector:** Rear panel BNC

**Range:** DC to 100MHz

**Level:** ECL 100k compatible

**Vertical Resolution:** 14Bits

**Waveform Memory:** 1Meg points standard, 4Meg points optional

#### MEMORY SEGMENTATION

**Number of Segments:** 1 to 4096

**Min Segment Size:** 16 points

**Memory Interleave:** 4 (All trace lengths must be multiples of 4)

#### SEQUENCED ARBITRARY WAVEFORMS

**Operation:** Permits division of the memory bank into smaller segments. Segments may be linked, and repeated in user-selectable fashion to generate extremely long waveforms.

#### ADVANCE MODES

**Automatic Sequence Advance:** No triggers required to step from one segment to the next.

Sequence is repeated continuously through a pre-programmed sequence table

#### Stepped Sequence Advance:

Current segment is sampled continuously, external trigger advances to next programmed segment. Control input is TRIG IN connector.

#### Single Sequence Advance:

Current segment is sampled to the end of the segment including repeats and idles there. Next trigger advances to next segment. Control input is TRIG IN connector.

#### Mixed Sequence Advance:

Each step of a sequence can be programmed to advance either a) automatically (Automatic Sequence Advance), or b) with a trigger (Stepped Sequence Advance)

**Advance Source:** External, rear panel BNC; Internal; GPIB

**Sequencer steps:** From 1 to 4096

**Segment loops:** From 1 to 1Meg

**Segment Duration:** Minimum 1µs for more than one loop.

### COMMON CHARACTERISTICS

#### MAIN OUTPUT

**Connector:** Front panel BNC

**Stand-by:** Output Off or Normal

**Impedance:** 50Ω, ±1%

**Protection:** Protected against temporary short to case ground

#### Frequency Resolution:

7 digits limited by 1µS/s

#### Accuracy:

1ppm

#### Stability:

1ppm

#### Reference:

Internal  
0.0001% (1ppm TCXO) initial tolerance over a 19°C to 29°C temperature range; 1ppm/°C below 19°C and above 29°C; 1ppm/year aging rate

External  
10MHz TTL, 50% ±2% duty cycle

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### AMPLITUDE

<b>Range:</b>	10 mV to 10Vp-p, into 50Ω; Double into open circuit
<b>Resolution:</b>	4 digits
<b>Accuracy (1kHz):</b>	
1.000V to 10Vp-p	±(1% + 25 mV)
100 mV to 999.9 mVp-p	±(1% + 5 mV)
10 mV to 99.99 mVp-p	±(1% + 2 mV)

### OFFSET

<b>Range:</b>	0 to ±4.5V, amplitude dependent
<b>Resolution:</b>	2.2mV
<b>Accuracy:</b>	±1%

<b>FILTERS</b>	50MHz Elliptic 25MHz Elliptic
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### SYNC/MARKER OUTPUT

<b>Connector:</b>	Front panel BNC
<b>Impedance:</b>	50Ω, ±1%
<b>Level:</b>	>2V into 50Ω, 4V nominal into 10kΩ
<b>Protection:</b>	Protected against temporary short to case ground
<b>Validators:</b>	BIT, LCOM
<b>Position:</b>	Point 0 to n, Programmable with 4-point resolution
<b>Width Control:</b>	Programmable
<b>Range:</b>	4 to 100000 waveform points
<b>Resolution:</b>	4 points
<b>Source:</b>	Main output

### SINEWAVE OUTPUT

<b>Connector:</b>	Rear panel BNC
<b>Impedance:</b>	50Ω, ±1%
<b>Level:</b>	1V into 50Ω
<b>Protection:</b>	Protected against temporary short to case ground
<b>Source:</b>	Sample clock frequency
<b>Frequency Range and Resolution:</b>	Same as Sample clock
<b>Total Harmonic Distortion:</b>	0.05% to 100kHz
<b>Harmonics and non-related spurious:</b>	< -30dBc

### INPUTS

#### TRIG INPUT

<b>Connector:</b>	Rear panel BNC
<b>Impedance:</b>	10kΩ, ±5%

<b>Threshold Level:</b>	TTL
<b>Min Pulse Width:</b>	20ns
<b>Slope:</b>	Positive or negative going edge.

### 10 MHz REFERENCE INPUT

<b>Connector:</b>	Rear panel BNC
<b>Impedance:</b>	10kΩ, ±5%
<b>Threshold Level:</b>	TTL
<b>Duty Cycle:</b>	50%, ±5%
<b>AM Input</b>	
<b>Modulation Input:</b>	Rear panel BNC
<b>Impedance:</b>	1MΩ, ±5%
<b>Max Input Voltage:</b>	12V
<b>Sensitivity:</b>	0V to +5V (5Vp-p) produce 100% modulation
<b>Source:</b>	External
<b>Modulation Range:</b>	0 to 100%
<b>Bandwidth:</b>	DC to 500kHz

### MODULATION

#### FM

<b>Waveform</b>	
<b>Modulation:</b>	Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC, Arb
<b>Source:</b>	Internal
<b>Resolution:</b>	7 digits
<b>Accuracy:</b>	0.1%
<b>Frequency</b>	
<b>Distortion:</b>	<0.1%
<b>Deviation Range:</b>	100mS/s to 100MS/s
<b>Trigger</b>	
<b>Advanced Mode:</b>	Automatic, Triggered, Gated or Software Command
<b>Marker</b>	
<b>Output &amp; Level:</b>	Same as SYNC output.
<b>Position:</b>	Programmable for selected frequency

#### FM – BUILT-IN STANDARD WAVEFORMS

<b>Carrier Waveforms:</b>	Sine, Square, Triangle and Ramp
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<b>Modulation</b>	
<b>Frequency Range:</b>	1mHz to 100kHz

#### FM – DOWNLOADED ARBITRARY WAVEFORMS

<b>Modulation Source:</b>	User waveform, any shape, 10 to 20000 waveform points
<b>SCLK Range:</b>	1mS/s to 2MS/s

### FSK

<b>Carrier Sample</b>	
<b>Clock Range:</b>	100mS/s to 100MS/s
<b>Source:</b>	External, Rear panel Trigger input BNC.
<b>Low level:</b>	Carrier sample clock
<b>High level:</b>	Hop frequency
<b>Frequency Range:</b>	From 10MHz to DC
<b>FSK Delay:</b>	Minimum 1 waveform cycle + 50ns

### RAMPED FSK

<b>Ramp Time Range:</b>	10μs to 1s, 3 digits, ±0.1%
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### SWEEP

<b>Carrier Waveforms:</b>	Sine, Square, Triangle, Ramp, Arb
<b>Type:</b>	Linear or Logarithmic
<b>Direction:</b>	Up or down, depending on the start and stop setting
<b>Sweep Time:</b>	1ms to 1000s, 7 digits, ±0.1%
<b>Range:</b>	100mS/s to 100MS/s
<b>Trigger</b>	
<b>Advanced Mode:</b>	Automatic, Triggered, Gated or Software Command
<b>Marker:</b>	
<b>Output &amp; Level:</b>	Same as SYNC output.
<b>Position:</b>	Programmable for selected frequency

### TRIGGERING CHARACTERISTICS

#### TRIGGER SOURCES

##### EXTERNAL

<b>Connector:</b>	Rear panel BNC
<b>Level:</b>	TTL
<b>Slope:</b>	Positive or negative
<b>Frequency:</b>	DC to 2MHz
<b>Impedance:</b>	10kΩ, DC coupled

##### INTERNAL

<b>Range:</b>	100mHz to 2MHz
<b>Resolution:</b>	7 digits
<b>Accuracy:</b>	0.1%

##### MANUAL

Single trigger (front panel push-button) simulates an external trigger signal.

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### TRIGGER START PHASE

**Description:** Waveform starts from point n and completes at point n-1.  
**Range:** 0 to 999999 waveform points (1Meg, 4Meg optional)  
**Resolution:** 4 points

### START/STOP CONTROL (BREAKPOINT)

**Range:** 0 to 999999 waveform points (1Meg, 4Meg optional)  
**Source:** External (Rear Panel Trigger Input BNC), Manual, or software command through RS232 or GPIB  
**Resolution:** 4 points  
**Breakpoint Error:**  $\pm 4$  points

### SYSTEM DELAY

**Trigger to waveform output:** 1 Sample Clock+150ns

**GATED MODE** External signal enables generator. First output cyclesynchronous with the active slope of the triggering signal. Last cycle of output waveform always completed

### BURST

**Waveforms:** Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC, Arb

**Number of cycles per burst:** 1 to 1000000  
**Trigger source:** Manual, External or Internal

### MULTI-INSTRUMENT SYNCHRONIZATION

**Description:** Multiple instruments can be connected together and synchronized to provide multi-channel synchronization.

### PHASE (LEADING EDGE) OFFSET

**Description:** Leading edge of master output trails the leading edge of the slave output by a programmable number of points. Each slave can be programmed to have individual offset.

**Range:** 0 to 999999 points (1Meg, 4Meg optional)  
**Resolution and Accuracy:** 4 point  
**Initial Skew:**  $< \pm 15$ ns, depending on cable length and quality, typically with 1 meter coax cables

### GENERAL

**Power requirements:** 90 to 264V, 47 to 63Hz, 50W max  
**Display:** 4 lines, 80 characters, backlit LCD.  
**Operating temperature:** 0 - 40°C  
**Humidity (non-condensing):** 11°C to 30°C: 85 %  
 31°C to 40°C: 75 %  
**Storage temperature:** -40°C to + 70°C.  
**Interface:** GPIB and RS232C standard  
**Language:** IEEE-488.2 - SCPI - 1993.0  
**Dimensions:** 212 x 88 x 415 mm (WxHxD)  
**Weight:** Approx 4kg  
**Safety:** EN61010-1  
**EMC:** CE marked. Designed to meet VDE 0411/03.81 and UL 1244  
**Reliability:** MTBF per MIL-HDBK-217E, 25°C, Ground Benign  
**Workmanship Standards:** Conform to IPC-A-610D  
**Supplied Accessories:** Power Cord, CD containing Operating Manual, ArbConnection software and developer libraries.  
**Warranty:** 3 years standard

### ORDERING INFORMATION

MODEL	8025
100MS/s Single-Channel Arbitrary Waveform Generator	

### OPTIONS

4Meg	4 Meg Memory
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### ACCESSORIES

<b>Sync cable</b>	Sync cable for multi instrument synchronization
<b>S-Rack mount</b>	19" Single Rack Mounting Kit
<b>D-Rack mount</b>	19" Dual Rack Mounting Kit
<b>Case Kit:</b>	Professional Carrying Bag

**Note:** Options and Accessories must be specified at the time of your purchase.