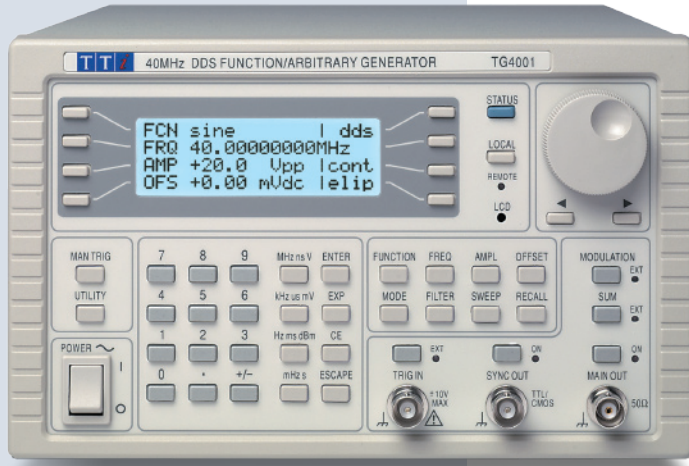


## TG4001

- ▶ 40MHz DDS function generator
- ▶ High speed arbitrary waveforms
- ▶ Pulse train generation
- ▶ RS-232, USB and optional GPIB

*Further details are provided in the comparison table on the previous page. Full details are available on the web site.*



The TG4001 provides high purity sine waves at up to 40MHz and square waves at up to 50MHz. The output amplifier has a bandwidth approaching 100MHz ensuring that waveform quality is excellent right up to the frequency limits. Amplitude flatness is better than  $\pm 0.2\text{dB}$  to 1MHz and  $\pm 0.4\text{dB}$  to 40MHz.

Low noise design ensures minimum waveform aberrations and provides high waveform quality even at minimum output amplitude.

In addition to its eleven 'standard' waveforms, the TG4001 can generate arbitrary waveforms of any length between 8 and 65,536 points at speeds of up to 100MS/s. Up to four arbitrary waveforms can be stored within the instrument.

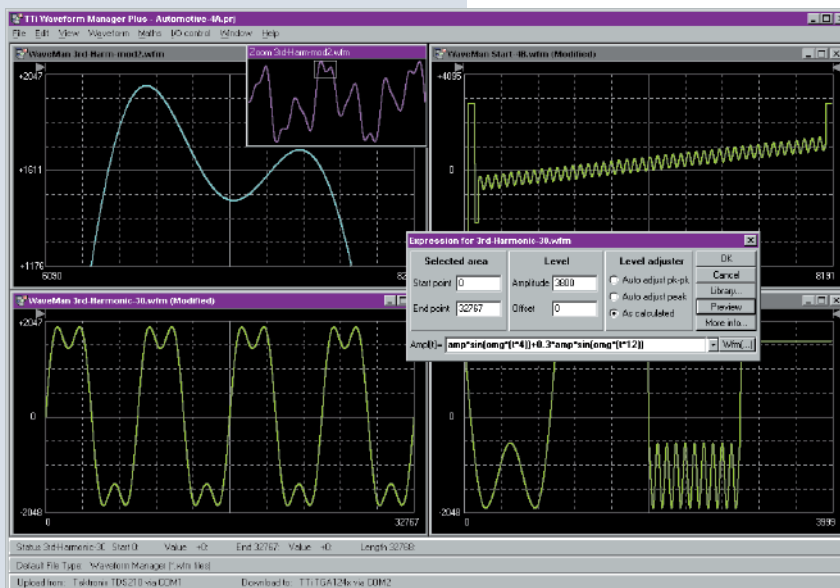
As well as standard and arbitrary waveforms, The TG4001 can generate pulse trains. A pattern of up to 10 pulses can be quickly defined with each pulse having its own amplitude, width and delay.

- ▶ 0.1MHz to 40MHz range; 10 digits or 0.1MHz resolution.
- ▶ 11 standard waveforms including sine, square, triangle, haversine, ramp, pulse,  $\sin(x)/x$ .
- ▶ Pulse train generation for up to 10 pulses.
- ▶ Arbitrary waveforms of up to 64K points at up to 100MS/s.
- ▶ Modulations modes of sweep, burst, gated and tone switching; built-in trigger generator.
- ▶ 5mV to 20V pk-pk output from  $50\Omega$ ; plus multi function aux. out.
- ▶ Storage for nine instrument set-ups in non-volatile memory.
- ▶ Waveform Manager Plus for Windows software included.
- ▶ Programmable via RS-232 or USB interfaces; GPIB optional.

## Waveform Manager Plus software

- ▶ Waveform creation, editing, import and management
- ▶ Full waveform building tools
- ▶ Interface via RS232, USB, LAN or GPIB

*Waveform Manager Plus is supplied with all TGA series generators and the TG4001 & TG251xA & TG501xA. Full details of the software capabilities are available on the web site.*



Aim-TTI arbitrary generators include a built-in waveform creation/editing facility that includes point-by-point value insertion, straight line interpolation between points and standard waveform insertion between points.

However, complex arbitrary waveforms will need to be generated using sophisticated software tools outside of the instrument and transferred using a digital interface.

Waveform Manager Plus is a Windows program that offers the most comprehensive range of waveform creation and editing tools available including a full mathematical expression generator and freehand drawing tools.

Waveform Manager Plus is supplied as standard with all TGA series generators and with the TG4001 and TG251xA and TG501xA.

Waveform Manager Plus can also be used to import waveforms from other software programs or other hardware devices and to scale and crop these waveforms for compatibility with the target arbitrary generator.

- ▶ Full waveform building tools including standard waveforms, mathematical expressions, clipboard functions and freehand drawing.
- ▶ Compatible with Windows 2000 thro Windows 8.
- ▶ Vertical resolutions up to 16 bits (65536 points).
- ▶ Horizontal resolutions to over one million points.
- ▶ Waveform import/export via clipboard functions.
- ▶ Direct import from CSV files
- ▶ Download and upload via RS232, USB, GPIB, LAN.