

Signal Sources Selection Guide

Signal Sources

Fluke offers a range of function, pulse/function and universal waveform generators that are designed to meet your requirements and stay within your

budget. Whether you require a simple LF function generator, or a powerful multi-channel arb, we have a product designed with you in mind.



| Model | Function Generators | | | Universal Waveform Generators | | |
|---|---------------------|-------------|--------------------------------|--|--|--|
| | 80 | 81 | 271 | 281 | 282 | 284 |
| Output channels | 1 | 1 | 1 | 1 | 2 | 4 |
| Maximum amplitude (into 50 Ω) | 16 Vpp | 16 Vpp | 10 Vpp | 10 Vpp | 10 Vpp | 10 Vpp |
| Standard Waveforms | | | | | | |
| Sine maximum frequency | 50 MHz | 50 MHz | 10 MHz | 16 MHz | 16 MHz | 16 MHz |
| Square maximum frequency | 50 MHz | 50 MHz | 10 MHz | 16 MHz | 16 MHz | 16 MHz |
| Pulse maximum frequency | N/A | 50 MHz | 10 MHz | 10 MHz | 10 MHz | 10 MHz |
| Pulses | No | Single | Multi-level | Pulse Train | Pulse Train | Pulse Train |
| Noise Generator | No | No | Random | No | No | No |
| Frequency Accuracy | | | 10 ppm | 10 ppm | 10 ppm | 10 ppm |
| Arbitrary Waveforms | | | | | | |
| Maximum Sampling Frequency | | | 27.48 MS/s | 40 MS/s | 40 MS/s | 40 MS/s |
| Waveform length (points) | | | 1024 | 4 - 65536 | 4 - 65536 | 4 - 65536 |
| Waveform memory | | | 5 x 1 K blocks | 64 k blocks | 64 K | 64 K |
| Vertical resolution | | | 10 bits | 12 bits | 12 bits | 12 bits |
| Waveform sequencing (max. # of segments) | | | | 16 | 16 | 16 |
| Looping | | | No | Yes | Yes | Yes |
| Operating Modes | | | | | | |
| Triggered | Yes | Yes | Yes | Yes | Yes | Yes |
| Gated | Yes | Yes | Yes | Yes | Yes | Yes |
| Burst | Yes | Yes | Yes | Yes | Yes | Yes |
| Frequency sweep | Yes | No | Yes | Yes | Yes | Yes |
| Selectable output filter | | | | 10 MHz Elliptical, 10 MHz Bessel, none | 10 MHz Elliptical, 10 MHz Bessel, none | 10 MHz Elliptical, 10 MHz Bessel, none |
| Modulation source | | | | External dc-100 kHz | External dc-100 kHz | External dc-100 kHz |
| Modulation | AM, FM | AM, PWM | AM, FSK, Tone | AM, Tone | AM, Tone, DTMF | AM, Tone, DTMF |
| Signal summing | No | No | No | No | No | No |
| VCO/VCA input | Yes | Yes | No | Yes | Yes | Yes |
| Phase lock to external analog signal | Yes | Yes | No | No | No | No |
| Multi-unit phase lock | Yes | Yes | Yes | Yes | Yes | Yes |
| General | | | | | | |
| GPIB interface | Yes | Yes | Yes | Yes | Yes | Yes |
| RS-232 interface (conventional mode) | No | No | Yes | Yes | Yes | Yes |
| USB | No | No | No | No | No | No |
| Ethernet | No | No | No | No | No | No |
| Waveform software | | | Waveform Mgr. Plus Optional | Waveform Mgr. Plus | Waveform Mgr. Plus | Waveform Mgr. Plus |
| Recommended replacement for obsolete models | HP 8116A | HP 8116A | Wavetek 29A | Wavetek 39A | Wavetek/Fluke 195 | Wavetek/Fluke 195/001 |

| Model | Arbitrary Waveform Generators | | | | |
|---|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------|------------------------------|
| | 291 | 292 | 294 | 396 | 397 |
| Output channels | 1 | 2 | 4 | 1 | 2 |
| Maximum amplitude (into 50 Ω) | 10 Vpp | 10 Vpp | 10 Vpp | 10 Vpp | 10 Vpp |
| Standard Waveforms | | | | | |
| Sine maximum frequency | 40 MHz | 40 MHz | 40 MHz | 50 MHz | 50 MHz |
| Square maximum frequency | 50 MHz | 50 MHz | 50 MHz | 50 MHz | 50 MHz |
| Pulse maximum frequency | 10 MHz | 10 MHz | 10 MHz | 10 MHz | 10 MHz |
| Pulses | Pulse Train | Pulse Train | Pulse Train | No | No |
| Noise generator | No | No | No | Yes | Yes |
| Frequency accuracy | 10 ppm | 10 ppm | 10 ppm | 1 ppm | 1 ppm |
| Arbitrary Waveforms | | | | | |
| Maximum sampling frequency | 100 MS/s | 100 MS/s | 100 MS/s | 125 MS/s | 125 MS/s |
| Waveform length (points) | 1 M | 1 M | 1 M | 16 to 4 M | 16 to 4 M |
| Waveform memory | Removable compact FLASH card | Removable compact FLASH card | Removable compact FLASH card | 1 MByte memory | 4 MByte memory |
| Vertical resolution | 12 bit | 12 bit | 12 bit | 14 bits | 14 bits |
| Waveform sequencing (max. # of segments) | 1024 | 1024 | 1024 | 4096 | 4096 |
| Looping | Yes | Yes | Yes | Yes | Yes |
| Operating Modes | | | | | |
| Triggered | Yes | Yes | Yes | Yes | Yes |
| Gated | Yes | Yes | Yes | Yes | Yes |
| Burst | Yes | Yes | Yes | Yes | Yes |
| Frequency sweep | Yes | Yes | Yes | Yes | Yes |
| Selectable output filter | 40 MHz Elliptic, 20 MHz Bessel, none | 40 MHz Elliptic, 20 MHz Bessel, none | 40 MHz Elliptic, 20 MHz Bessel, none | 50 MHz, 25 MHz, both or none | 50 MHz, 25 MHz, both or none |
| Modulation source | External dc-100 kHz | External dc-100 kHz | External dc-100 kHz | Internal dc-200 kHz | Internal dc-200 kHz |
| Modulation | AM, SCM, Tone | AM, SCM, Tone | AM, SCM, Tone | AM, FM, FSK, Ramped FSK | AM, FM, FSK, Ramped FSK |
| Signal summing | Yes | Yes | Yes | No | No |
| VCO/VCA input | Yes | Yes | Yes | No | No |
| Phase lock to external analog signal | Yes | Yes | Yes | Yes | Yes |
| Multi-unit phase lock | Yes | Yes | Yes | Yes | Yes |
| General | | | | | |
| GPIB interface | Yes | Yes | Yes | Yes | Yes |
| RS-232 interface (conventional mode) | Yes | Yes | Yes | Yes | Yes |
| USB | Yes | Yes | Yes | Yes | Yes |
| Ethernet | No | No | No | No | Yes |
| Waveform software | Waveform Mgr. Plus | Waveform Mgr. Plus | Waveform Mgr. Plus | ArbExplorer software | ArbExplorer software |
| Recommended replacement for obsolete models | | | | Wavetek 395 | |

Fluke. Keeping your world up and running.

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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