Specifications in brief: AFG

Frequency

Sine, triangle, square

Trapeze Pulse/sin² pulse Ramp Resolution

Signal output

Output voltage (AC) Range DC offset voltage Range

SYNC output

Waveforms

Standard functions Derived functions Symmetry setting Range

Operating modes

CONT BURST 1/2 -CYCLE BURST GATE SWEEP Modes

Functions

Trigger input/output

Modes Internal External

Modulation

Modes

Carrier frequency

General data

Remote control Power supply 10 mHz to 20 MHz (symm. 50%) 2 Hz to 2 MHz (symm. 5 to 95%) 666 µHz to 500 kHz 666 µHz to 1 MHz 2 Hz to 2 MHz 3.5 digits

can be set independently of DC offset 0 to 10 V pp into 50 Ω can be set independently of AC +5 to -5 V into 50 Ω

TTL, 50 $\Omega_{\!\!\!\!\!\!}$ symmetry and frequency same as signal output

sine, triangle, square, trapeze, pulse ramp, sin² pulse by symmetry setting for sine, triangle, square 5 to 95% (of cycle)

(sine, triangle, square)

periodic, single-shot, externally triggered, manually triggered sweeps lin/log, ramp up/down, triangle, trapeze

internal, external TTL/HCMOS, 1 k Ω Z_{out} =1 k Ω , DC to 20 MHz

AM, FM, VCO external, PM internal/external, FSK internal/external 10 mHz to 20 MHz

IEC 625-1/IEEE 488 100/120/220/240 V ±10%, 47 to 63 Hz, 65 VA

Specifications in brief: AFGU

Data differing from that of Function Generator AFG

Frequency

Sine, triangle, square, pulse 1 uHz to 20 MHz Ramp, trapeze 1 µHz to 2 MHz Signal sync output: Square (TTL/HCMOS) 1 uHz to 20 MHz with option AFGU-B1 1 µHz to 50 MHz Frequency resolution 6-digit, min. 1 uHz (continuous) 3.5-digit, min. 1 µHz (burst, gate) Frequency error in synthesizer mode setting error + error of reference Setting error (2 kHz to 20 MHz) $+6 \times 10^{-7}$ Signal output Output impedance 50 $\Omega/<5 \Omega$ selectable (f = 10 kHz) Output voltage (AC) Range (V pp), EMF 0 to 30 V ($I_{max} = 200 \text{ mA}$) 0 to 15 V (into 50 Ω with Z_c = 50 Ω) DC offset voltage ($Z_c = 50 \Omega$) V_{offset} ≤10 V–0.5 V pp Range Waveforms same as AFG, plus arbitrary waveforms Operating modes same as AFG, plus: F/N and FxN DIGITAL SWEEP

Optional 50 MHz TTL/CMOS Output AFGU-B1 Frequency range 1 μHz to 50 MHz

Frequency range Output signal

General data Power supply

Dimensions (W x H x D) Weight for fully equipped unit 100/120/220/240 V ±10%, 47 to 63 Hz, 120 VA 435 mm x 147 mm x 350 mm 10.5 kg (AFG), 14 kg (AFGU)

TTL. HCMOS into 50 Ω

Ordering information

| Function Generator | AFG AFGU | 0377.2100.02 0377.5000.02 |
|--|-------------|------------------------------|
| Extras Optional 50 MHz Frequency Extension, | | |
| TTL/CMOS Output for AFGU | AFGU-B1 | 0351.8018.02 |
| Service Kit Arbitrary Waveform Designer | AZ-1 | 0377.4810.02 |
| (application software for AFGU) | AWD-K1 | 1026.4500.03 |