

PRECISE : Very high frequency accuracy (0.005%) with display over 4 or 10 digits.

- Very high sine quality (distorsion <0,1%).
- duty cycle: adjustable from 10 to 90%.

COMPLETE : Internal or external AM, FM, FSK et PSK modulation schemes.

- Internal linear or logarithmic sweep
- 0,8 Hz to 100 Mhz external frequency meter.
- Offset independent of attenuator

PROTECTED : 50 Ω and TTL output protected up to ±60 V.

EASY : Storage for 14 setups and parameters.



*OPTIONS : RSEETHER

RSWIFI

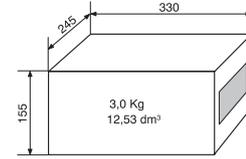
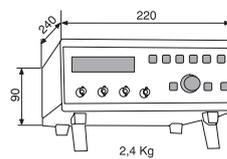
USBR232

PROTECTED RS232 + (USB OR LAN)*

11 μHz to 12 MHz

DDS

AM, FM, FSK, PSK



Specifications

Functions

- Sine : Frequency range 11 μHz to 12 MHz. distortion at 2 Volts <0,1% up to 20 kHz and harmonics <-30 dB.
- Square : frequency range 11 μHz to 12 MHz. square-wave signal rise or fall times : 25 ns maxi (10 to 90%). duty cycle calibrated to 50% ± 1% and continuously variable from 10 to 90%.
- Triangle : frequency range 11 μHz to 12 MHz. Linearity <1% (up to 100 kHz).
- Ramp : frequency range 22 μHz to 5 MHz, rising or falling. Linearity <1% (up to 100 kHz)
- Impuls : Square-wave signal adjustment at the minimum
- DC : ±10 V (open circuit), ±5 V into 50 Ω
- Frequency adjustment : Thumbwheel switch with selected digit incrementation or decrementation.
- Frequency display : 10 digits in extended mode
4 digits in standard mode.
- Accuracy : ±50 ppm +10 μHz.

Frequency sweep

- Internal : linear or logarithmic, sweep time adjustable from 10 ms to 10 s. Sweep from 0,372 Hz to frequency Max. (F stop mini = F start +100 Hz. Step of 10 Hz). Start synchronization of the ramp output on BNC socket.

Modulation

Internal sine-wave AM, FM, PSK, FSK to 800 Hz.
External on BNC socket, Input impedance : 10KΩ.

- AM : Internal, modulation percentage settable to 25, 50, 75 or 100%. External, bandwidth from DC to 20 kHz, 1V rms=100%.
- FM : Deviation adjustable from 100 Hz to Fmax, bandwidth from DC to 5.6 kHz.
- FSK : Adjustable from 100 Hz to Fmax, bandwidth from DC to 20 kHz.
- PSK : Phase adjustable from 0 to 360°, bandwidth from DC to 20 kHz.

Main output (Protected against short circuits and up to ±60 V reverse current surges)

- Output impedance : 50 Ω, accuracy : ± 5%.

- Output level : 20 V peak to peak (open circuit), 10 V peak to peak into 50 Ω.
- Amplitude variation : from 0,1 to 1 dB depends of the frequency
- Fixed attenuation : 0, - 20 dB and - 40 dB switchable.
- Variable attenuation : 0 to -20 dB.
- Offset voltage : ± 10 V (open circuit), ± 5 V into 50 Ω independent of the attenuator.

TTL output (Protected against short circuits and up to ±60 V reverse current surges)

- Synchronous square-wave signal 0 to 5 Volts. Fan-out : > 10.
- Rise and fall times : < 10 ns.

Frequency counter

- Frequency range : 0,8 Hz to 100 MHz in 5 automatic ranges
0,8 Hz to 25 MHz and 1 range from 25 to 100 MHz.

- Display over 5 digits.
- Input on BNC socket, impedance : 1 MΩ/20 pF
- Typical sensitivity : 25 mV rms.
- Accuracy : ± 0,025% ± 1 digit.

Other specifications

- Parameter display : 2 lines of 16 characters.
- Memorizing of the parameters: Safeguard of 14 configurations.
- Interface : RS232 link 9-way male SUB-D plug. labVIEW™'s drivers download on www.elc.fr
- * USB option : USB / RS232 adapter kit + null modem cable.
- * ETHERNET option : RS232 / RS485 / RS422 adapter kit to ETHERNET.
- Safety : Class I, Complies with EN 61010-1, overvoltage category II, pollution degree 2.
- EMC : Complies with EN 50082-1, performance criteria B and EN55011, ISM groupe I, class B.
- Input voltage : 230 V ±10%, 50/60 Hz ; protected by 200 mA time-delay fuse.
- Mains input : EEC socket with 2 poles + earth cable.
- Power consumption : 30 VA max.
- Dielectric strength : 2300 VAC input to output, 1350 VAC input to chassis.
- Presentation : screen-printed polycarbonate front panel, metal case, epoxy finish, feet.