

Model 2640

2.0GHz Handheld RF Field Strength Meter



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The B&K Precision model 2640 is a battery operated, hand-held RF Field Strength Meter capable of measuring RF levels and electric field strength. The synthesizer-based design provides you with reliable measurements across a wide reception range of 100KHz to 2000MHz, a remarkably low noise floor of -110 dBm to detect weak signals and basic spectrum analyzer functionality. The 2640 provides field technicians and engineers with a cost-effective measurement tool for basic signal investigations at only a fraction of the cost of a full-featured conventional spectrum analyzer.

The 2640's user-friendly interface combined with convenient presets such as predefined filter settings and other special functions (e.g. squelch) commonly used in analog communication systems make the 2640 easy to use. The B&K Precision 2640 supports RS 232C serial communication and includes software that can control the instrument from a personal computer. The user can save the instrument's measurement data on the PC for further analysis.

The handheld RF Field Strength Analyzer is an ideal tool for field testing, installing and maintaining Mobile Telecommunications systems



such as Cellular and Cordless Phone, CB Paging, Paging, Cable and Satellite TV Systems as well as performing antenna site measurements and maintenance.

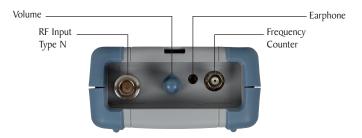
Features

- Battery-operated portability
- 100KHz to 2GHz measurement range with a maximum display span of 400MHz
- Hand-held and battery operated portability
- Built-in 2GHz frequency counter
- Detects wide band (180KHz) and narrow band FM (12.5KHz), AM & SSB (2.4KHz) signals
- Phase-locked loop for precise frequency tuning
- Up to 160 channels may be scanned and displayed
- Audio output of the detected signal with built-in speaker
- Detachable antenna included
- Back-lit display
- Storable setups and displays
- RS-232 Interface

Features

RF Field Strength Analyzer

- Spectrum: Peak Search, Marker to Center, Channel Power Function
- Internal Attenuation: The input range can be extended by enabling the internal 10 dB Attenuation function
- Sweep Mode: Single Run, Free Run, Squelch Run Selectable
- Squelch Function: The Squelch Level may be adjusted across the full dynamic range.



Frequency Counter

The 2640's built in frequency counter is independent from the field strength analyzer and measures the signal applied to the external BNC connector

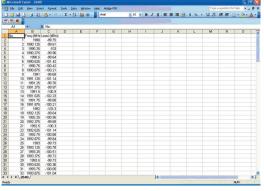
- Frequency range: 35 MHz to 2,000 MHz
- No. of digits: 7 digits
- Resolution: | kHz

PC Software

The included AK2640 software and interface cable allows full control of the 2640 via a PC through the RS232C interface. The software allows the saving, recalling and analyzing of current and saved waveforms. The 2640 can save up to 100 waveforms and states in to it's internal memory.



Screenshot of the AK2640 software



Screenshot of the exported CSV data

2640 100 kHz to 2,000MHz
Min. 6.25KHz Multiples
TXO : \pm 3 PPM / Display : \pm 1.5 PPM
Wide FM : Approx. 180KHz @-6 dB
Narrow FM : Approx. 12.5KHz @-6 dB
AM/SSB : Approx. 2.4KHz @-6 dB
AM, SSB, Narrow FM : 6.25KHz, 12.5KHz
Wide FM : 6.25~125kHz (Multiple of 6.25 kHz)
125~2500KHz (Multiple of 125KHz)
AM, SSB, Narrow FM : 1MHz, 2MHz
Wide FM : 1~20MHz (Multiple of 1MHz)
20~400MHz (Multiple of 20MHz)
Center, Start/ Stop, Span
-45 dBm to -110 dBm
Wide FM : -100 dBm Max.
Narrow FM : -110 dBm Max.
AM/SSB : -100 dBm Max.
dBm, dBmV, dBuV
±3.0 dB @ under 600KHz
±2.0 dB @ over 600KHz
0 dBm to -80 dBm
0.2 dB/DIV min, in 0.25 dB Span (5 Display Divisio
10 dB
±1.0 dB (@25)
Min. 500 msec
Narrow FM / Wide FM / AM / SSB
Free Run /Single Run /Continuous /Wave Squelch Ru
TTL Level
Marker / Delta Marker
Max 100 Waveforms and 100 States
Mono STN LCD
192 Pixels X 192 Pixels
On / Off
35MHz to 2,000MHz
7 Digits
±50 PPM ±1 COUNT
1 sec
35MHz to 2,000MHz : 150 mVrms
20MHz to 1,000MHz : 100 mVrms
50Ω
5 Vrms Max.
N type Female, 50Ω
Max. +10 dBm, 5Vrms
0° C to 40° C
35% RH to 85% RHP
10° C to 50° C
AA Type Ni-MH Rechargeable Battery \times 6 PCS
AA Type 1.2 V, 2,700 mAh Rechargeable Nickel
Metal Hydride Battery
SMPS Type AC Adapter (DC 12 V Output)
Car-Adapter (DC 12 V Output)
Off/ 5 min./ 10 min./ 20 min./30 min.
Ch/ 5 mm./ 10 mm./ 20 mm./ 30 mm.
$4"(M) \times 9"(H) \times 1.8"(D)$
4 "(W)×9 "(H)×1.8 "(D) Approx. 0.66 Kg(1.45 lbs)
(including Antenna, except Battery)
One Year Warrant

Belt, RS-232C Cable, Adapter(N-BNC), Software for PC Application