

AT8602B

FUNCTION GENERATOR

0.2 ~ 2MHz



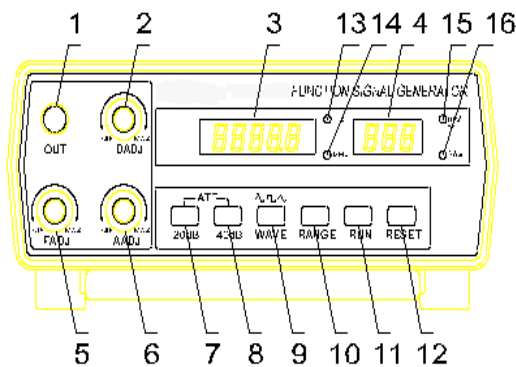
FEATURES

- It's convenient to operate and use with high intelligence for using the single microprocessor to control running and displaying.
- Large scale single integrated accuracy function generator leads to super performance.
- Designed by large scale integrated circuit to insure the high reliability and high stability.

TECHNICAL SPECIFICATIONS

Output frequency	Frequency range: 0.2Hz~2MHz ; seven ranges a) 0.2Hz-2Hz b) 2Hz-20Hz c) 20Hz-200Hz d) 200Hz-2kHz e) 2kHz-20kHz f) 20kHz-200kHz g) 200kHz-2MHz
Output signal impedance	50 Ω
Vernier vertical sensitivity	Continuously variable to 1/2.5 or less of panel-indicated value
Output signal wave-form	Sine Wave, Square Wave, Rectangle Wave, Saw Tooth Wave And Triangle Wave
Output signal amplitude (peak-peak value)	<ul style="list-style-type: none">• Non-attenuate (2Vp-p~20Vp-p) \pm 20% continuously adjustable• Attenuate 20dB (0.2Vp-p~2.0Vp-p) \pm 20% continuously adjustable• Attenuate 40dB (20mVp-p~200mVp-p) \pm 20% continuously adjustable The above are measured with load 1M Ω the output signal amplitude will be half of standard at 50 Ω load
Function output symmetry adjust scope	20%~80% (\pm 10%)
Output signal features	<ul style="list-style-type: none">a) Sine wave distortion: < 2%b) Triangle wave linear: > 99% (10%-90% of output amplitude)c) Square wave rise edge times: less than 100nS (10%-90% of output amplitude)d) Square wave fall edge times: less than 100nS (10%-90% of output amplitude)e) Square wave rise and fall pulse less than or equal to 5%Vo (50Ω load).f) Test condition: frequency output: 10 KHz, amplitude: 5Vp-p, warm-up for 20minutes.

Output signal frequency stability	less than $\pm 0.1\%/min$ (test condition is the same as the above)
Amplitude	Display (only for 50 Ω load, at 1M Ω load, the real output amplitude is double of the displaying value) <ul style="list-style-type: none"> a) Display digits: 2/3 digits (decimal point automatic select place). b) Display units: Vp-p or mVp-p. c) Display errors: $V_o \pm 10\% \pm 1d$ (V_o refers to the true value of output signal) d) Resolution: Non-attenuate : 0.2Vp-p 20dB attenuate: 20mVp-p 40dB attenuate: 2mVp-p
Frequency display	Display range: 0.2Hz-2MHz Display effective digit: Four or Five digits
Measurement errors	$\leq 0.5\%$
Time base	Frequency: 12MHz Frequency stability: $\pm 5 \times 10^{-5}$
Working temperature	0°C ~ 40 °C
Size	270mm x 215mm x 100mm
Weight	approx.1.6kg.
Power applicability and consume	110V/220V $\pm 10\%$ 50Hz/60Hz $\pm 5\%$, power consume $\leq 15W$



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|------------------------------|-----------------------|
| 1. Frequency Output Terminal | 9. Wave-Form Selector |
| 2. Duty-Cycle Adjust | 10. RANGE |
| 3. Frequency Display Window | 11. RUN |
| 4. Amplitude Display Window | 12. RESET Button |
| 5. "FADJ" Knob | 13. Hz Indicator |
| 6. "AADJ" Knob | 14. KHz Indicator |
| 7. 20db Attenuate Key | 15. Mvp-P Indicator |
| 8. 40db Attenuate Key | |

We pursue a policy of continuous development and product improvement. Thus the specifications and picture in this Spec sheet and control location on the front Panel may be changed.