**FEATURES**

- **Function Generators**

**GFG-8200A Series**

- Frequency Range: 0.3Hz ~ 3MHz
- Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output
- External Voltage Controlled Frequency (VCF) Function
- Duty Cycle Control with Signal Inversion Capability
- Variable DC Offset Control
- Two-Step (-20dBx2) and Variable attenuator
- Built-in 6 Digit Counter with INT/EXT Function up to 150MHz
- LIN/LOG Sweep Mode
- GCV Output for Synchronization
- INT/EXT AM/FM Modulation
### GENERAL INFORMATION

**Power Source**

- **AC115V, 230V**
- **50 / 60 Hz**
- **CTF-101 x 2**
- **CTF-101 x 1 for GFG-8215A**

**Accessories**

- User manual x 1

**Dimension**

- **Weight**
  - Approx. 2.1kg (GFG-8216A)
  - Approx. 2.1kg (GFG-8219A)
  - Approx. 2.1kg (GFG-8217A)
  - Approx. 2.4kg (GFG-8250A)
  - Approx. 2.4kg (GFG-8255A)

**Specifications subject to change without notice.**

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GFG-8215A / 8216A / 8217A / 8219A</th>
<th>GFG-8250A / 8255A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAIN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Range</td>
<td>0.3Hz - 3MHz (<strong>R</strong> range)</td>
<td>0.3Hz - 3MHz (<strong>R</strong> range)</td>
</tr>
<tr>
<td>Amplitude</td>
<td>&gt;10Vpp (into 50 ohm)</td>
<td>&gt;10Vpp (into 50 ohm)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ± 10%</td>
<td>50 ± 10%</td>
</tr>
<tr>
<td>Attenuator</td>
<td>+20dB / ± 1dB/2</td>
<td>+20dB / ± 1dB/2</td>
</tr>
<tr>
<td>DC Offset</td>
<td>≤3V to +5V (into 10 ohm)</td>
<td>≤3V to +5V (into 10 ohm)</td>
</tr>
<tr>
<td>Duty Control</td>
<td>80% - 10% - 80% to 1MHz</td>
<td>80% - 10% - 80% to 1MHz</td>
</tr>
<tr>
<td>Display</td>
<td>Digital LED display</td>
<td>Digital LED display</td>
</tr>
<tr>
<td>Time Base</td>
<td>1 count</td>
<td>6-digit LED display</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±15Hz (at 1 point)</td>
<td>±15Hz (at 3 position)</td>
</tr>
</tbody>
</table>

**SINE WAVE**

- **Distortion**
  - ≤1% (3Hz - 200kHz)
  - ≤3±5dB below

**TRIANGLE WAVE**

- **Linear**
  - ≥ 85% 0.3Hz - 1MHz

**SQUARE WAVE**

- **Symmetry**
  - ≥ 2% 0.3Hz to 1MHz

**CMOS OUTPUT**

- **Level**
  - 40V pp (+1pp - 14.5Vpp) adjustable

**TTL OUTPUT**

- **Level**
  - ≤ 1.5Vpp

**VCF**

- **Input Voltage**
  - 0V - 10V, 5V (100:1)
- **Input Impedance**
  - 10k ± 10% (10k:1 ratio max. and adjustable)

**GCV**

- **Output Voltage**
  - To set the voltage between OV ~ 2V as per different frequency

**SWEEP OPERATION**

- **Sweep/Mode**
  - Switch selector
- **Sweep/Rate**
  - 10sec - 30sec adjustable
- **Sweep/Time**
  - 100% / 1 ratio max. and adjustable
- **Sweep/Range**
  - 0.5sec - 30sec adjustable
- **Sweep/Time**
  - 10ppm (23°C ± 5°C) after 30 minutes

**AMPLITUDE MODULATION**

- **Depth**
  - 0 - 100% (INT), DC - 1MHz (EXT.)
- **Carrier BW**
  - 100Hz - 3MHz (3dB)

**FREQUENCY MODULATION**

- **Depth**
  - 0 - 5% (INT), DC - 28MHz (EXT.)
- **Carrier BW**
  - 100Hz - 150MHz (INT)
- **Sweep/Time**
  - 10ppm for 10% modulation

**FREQUENCY COUNTER**

- **Range**
  - Switch selector
- **Time Base Accuracy**
  - ±10ppm (23°C ± 5°C) after 30 minutes

**GOOD WILL INSTRUMENT (Shanghai) Co., Ltd.**

No. 7-1, Jhongsing Road, Tucheng City, Taipei County 236, Taiwan

GOOD WILL INSTRUMENT CO., LTD.

+886-2-2268-0389

E-mail: ettan@goodwill.com.my

T 3661 Walnut Avenue Chino, CA 91710, U.S.A.

F: +604-6309989

E-mail: sales@gwinstek.com

Malaysia Subsidiary

GOOD WILL Southeast Asia Sdn. Bhd., MALAYSIA

15, Persiaran Mahkota U1, Sunway Tower, 51100 Bangsar, Kuala Lumpur, Malaysia

+603-6298895, F: +603-6298896

E-mail: miros@goodwill.com.my