Process Control

The GFD Model 3-Phase Ground Fault Display is intended for the use on grounded systems to detect and indicate the phase of the first ground fault condition. This enables corrective action to avoid the potential hazards resulting from a second ground fault. With a nominal 3 phase line voltage applied, a flashing normal green LED gives indication of a non-fault condition and integrity of the wire connection to the corresponding phase. When there is a phase-to-ground fault or a lost connection to the corresponding phase occurs a flashing red LED gives positive fault indication.

**Model GFD-100**

**SPECIFICATIONS**

- **Nominal Voltage:** 208-600 VAC ±10%, phase-to-phase, 50/60 Hz.
- **Max Continuous Voltage:** 860 VAC, phase-to-phase.
- **Wiring Error Protection:** Yes.
- **Detection Threshold:** 11.7 kΩ ±20% @ 50 Hz; 9.3 kΩ ±20% @ 60 Hz; single phase-to-ground.
- **Detector Induced Fault Current:** 50 Hz: 7.5 mA @ 600 VAC (1 phase-to-ground shorted); 60 Hz: 9 mA @ 600 VAC (1 phase-to-ground shorted).
- **Indicators:** Normal: (3) Green LEDs, 2 flashes/sec; Fault: (3) Red LEDs, 2 flashes/sec.
- **Power Required:** 50 Hz: 2.5 VA @ 600 VAC; 60 Hz: 3 VA @ 600 VAC.
- **Temperature Rating:** Operate: 32° to 131°F (0° to 55°C).
- **Enclosure:** 94V-0 Flame retardant black ABS plastic panel mount with 1/4˝ plastic electrical conduit adapter, encapsulated for environmental protection.
- **Electrical Connection:** (4) 2 ft., 18 AWG, 600V, 105°C PVC stranded wire with wire pin terminations, jacketed with 18˝ slit nylon corrugated tubing .556˝ O.D.
- **Weight:** 3.52 oz (99.8 g).

### Auto Ranging Scales

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Nominal Line-to-Line Voltages</th>
<th>Adjustable Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>60Hz</td>
<td>208, 220, 240, 380, 415, 460, 480</td>
<td>200-250, 360-500</td>
</tr>
<tr>
<td>50Hz</td>
<td>208, 220, 240, 346, 380, 415</td>
<td>200-250, 330-430</td>
</tr>
</tbody>
</table>

**Series SLU Universal Phase Monitor**

The Series SLU Universal Phase Monitor is a cost-effective means to provide Wye and Delta 3-Phase systems protection against equipment failure caused by voltage faults. Just one Series SLU universal phase monitor can be adjusted for the voltage, imbalance percentage, and time delay requirements to protect against single phasing and unbalanced voltages regardless of regenerative voltages. This product is perfect for electricians, maintenance managers, and engineers by protecting valuable electrical equipment from damage.

**Auto Ranging Scales**

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Auto Ranging Scales</th>
</tr>
</thead>
<tbody>
<tr>
<td>60Hz</td>
<td>See Auto Ranging Scales Table.</td>
</tr>
<tr>
<td>50Hz</td>
<td>See Auto Ranging Scales Table.</td>
</tr>
</tbody>
</table>

#### Series SLU-100-ASA, 8 Pin Socket Mount
#### Series SLU-100-ASD, DIN Rail Mount

**SPECIFICATIONS**

- **Auto Ranging Scales:** See Auto Ranging Scales Table.
- **Voltage Band:** Drop-out: ±10% of Range Setting (Under/Over). Pick-up: ±7% of Range Setting (Under/Over).
- **Maximum Voltage:** 550 VAC (line-to-line).
- **Phase Sequence:** ABC (Will not operate on CBA Sequence).
- **Power Required:** 90 VA Max.
- **Phase Unbalance:** 2% to 10%, Adjustable Drop-out.
- **Hysteresis:** 10% of Setting.
- **Phase Shift:** 13° drop-out, 12° Pick-up (delta loss).
- **Frequency Shift:** 50/60 Hz, Drop out: ±4%, Pick up: ±3%.
- **Reset:** Automatic or Manual Mode.
- **Relay Output:** SPDT, 10A @ 240 VAC, Resistive: 1/2 HP @ 240 VAC.
- **Indicators:** Normal (Green LED): Flashing - Fault Delay Active; Continuous - Relay Energized; Fault (Red LED): Flashing - Restart Delay Active; Continuous - Relay De-Energized. Temperatures Ratings: Operate: 32° to 131°F (0° to 55°C), Storage: -49 to 185°F (-45 to 85°C).
- **Weight:** 0.35 to 0.5 lb (158.8 to 226.8 g).