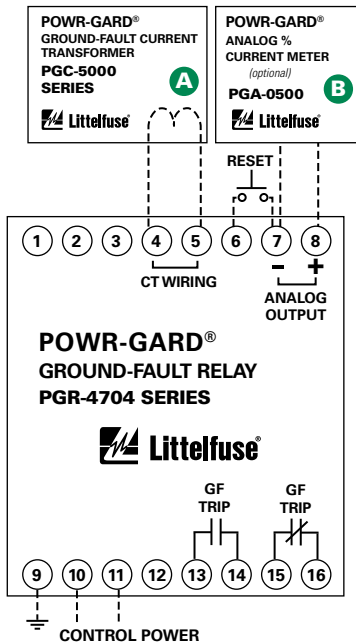


# PGR-4704 SERIES

## Sensitive Ground-Fault Relay



### Wiring Diagram



### Ordering Information

CATALOG/SYSTEM NUMBER	CONTROL POWER
PGR-4704-OD	9-36 Vdc
PGR-4704-OT	32-70 Vdc
PGR-4704-OU	75-275 Vac/dc

ACCESSORIES	REQUIREMENT	PAGE
PGC-5000	Required	38
PGA-0500	Optional	41
PGK-0055 or PGK-0060	Optional	40

Note: For optional conformal coating please consult factory.

### Description

The PGR-4704 is a microprocessor-based ground-fault relay for resistance- and solidly grounded systems, which require ground-fault detection as low as 10 mA. It is uniquely suited for very sensitive ground-fault protection on systems with significant harmonic content. The PGR-4704 can provide main-plant protection, feeder-level protection, or individual-load protection. The output contacts can be connected for use in protective tripping circuits or in alarm indication circuits. The analog output can be used with a PLC or a meter.

### Features & Benefits

FEATURES	BENEFITS
<b>Harmonic Filtering</b>	Eliminates nuisance tripping
<b>CT-Loop Monitoring</b>	When used with PGC-5000 Series CTs
<b>Adjustable Pickup (10 mA-5 A)</b>	Trip setting provides a wide range of low-level protection
<b>Analog Output</b>	Allows for connecting an optional meter (PGA-0500)
<b>Selectable Contact Operating Mode</b>	Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil
<b>Adjustable Time Delay</b>	Adjustable 55-ms to 2.0-s trip delay allows quick protection and system coordination
<b>Isolated Output Contacts</b>	Form A and Form B ground-fault output contacts for operation of separate annunciation and trip circuits
<b>Non-Volatile Trip Memory</b>	Retains trip state when de-energized
<b>Microprocessor Based</b>	No calibration required saves maintenance cost
<b>Universal Power Supply</b>	Allows operation in application where one side of PT is faulted

### Accessories

- A** **PGC-5000 Ground-Fault Transformer**  
Zero sequence current transformer specifically designed for low level detection. Flux conditioner prevents saturation.
- B** **PGA-0500 Analog % Current Meter**  
This optional panel-mounted analog meter displays ground-fault current as a percentage of the set-point.

### Specifications

<b>IEEE Device Numbers</b>	Ground fault (50GN, 51GN)
<b>Input Voltage</b>	See ordering information
<b>Dimensions</b>	<b>H</b> 75 mm (3.0"); <b>W</b> 55 mm (2.2"); <b>D</b> 115 mm (4.5")
<b>Trip Level Settings</b>	10 mA – 5.0 A
<b>Trip Time Settings</b>	30–2000 ms
<b>Contact Operating Mode</b>	Selectable fail-safe or non-fail-safe
<b>Harmonic Filtering</b>	Standard feature
<b>Test Button</b>	Standard feature
<b>Reset Button</b>	Standard feature
<b>CT-Loop Monitoring</b>	Standard feature
<b>Relay Contacts</b>	Isolated N.O. and N.C.
<b>Approvals</b>	CSA certified to US and Canadian standards, CE (European Union)
<b>Communications</b>	Analog output
<b>Conformally coated</b>	Consult factory
<b>Warranty</b>	5 years
<b>Mounting</b>	DIN, Surface, Panel