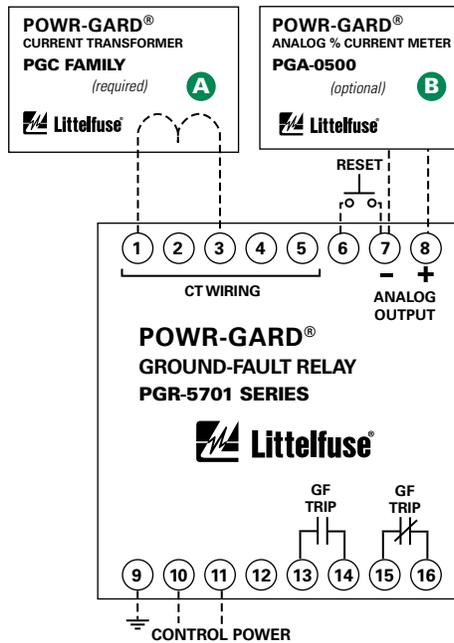


PGR-5701 SERIES

Ground-Fault Relay



Wiring Diagram



Ordering Information

CATALOG/SYSTEM NUMBER	CONTROL POWER
PGR-5701-OD	9-36 Vdc Control Power
PGR-5701-OT	32-70 Vdc Control Power
PGR-5701-OU	75-275 Vac/dc Control Power

ACCESSORIES	REQUIREMENT	PAGE
Current Transformers	Required	38
PGA-0500	Optional	41

Note: For optional conformal coating please consult factory.

Description

The PGR-5701 is a microprocessor-based ground-fault relay for resistance- and solidly grounded systems. It is uniquely suited for use on systems with significant harmonic content. The PGR-5701 can provide main-plant protection, feeder-level protection, or individual-load protection. Proper current transformer selection provides the desired pickup range. 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
Adjustable Pickup (unlimited)	Trip setting based on input CT primary, allows use with any CT
Adjustable Time Delay (50 ms–2.5 s)	Adjustable trip delay allows quick protection and system coordination
Output Contacts	Form A and Form B ground-fault output contacts for operation of separate annunciation and trip circuits
Analog Output (0–5 V)	Allows for connecting an optional (PGA-0500) meter or a control system
CT-Loop Monitoring	Alarms when CT is not connected
Selectable DFT or Peak Detection Algorithm	Compatible with variable-speed drives
Harmonic Filtering	Eliminates nuisance tripping
Non-Volatile Trip Memory	Retains trip state when de-energized to simplify troubleshooting
Microprocessor Based	No calibration required saves on maintenance cost
Universal Power Supply	Allows operation in application where one side of PT is faulted

Accessories

- A** **PGC Family Ground-Fault Current Transformer**
Required current transformer, model depending on application. We offer a variety of sensitive CTs with 5- and 30-A primaries.
- B** **PGA-0500 Analog % Current Meter**
Optional panel-mounted analog meter displays ground-fault current as a percentage of the CT primary rating.

Specifications

IEEE Device Numbers	Ground fault (50G/N, 51G/N)
Input Voltage	See ordering information
Dimensions	H 75 mm (3.0"); W 55 mm (2.2"); D 115 mm (4.5")
Trip Level Settings	1–99% CT-Primary Rating
Trip Time Settings	0.05–2.5 s
Contact Operating Mode	Selectable fail-safe or non-fail-safe
Harmonic Filtering	Standard feature
Test Button	Standard feature
Reset Button	Standard feature
CT-Loop Monitoring	Standard feature
Output Contacts	Isolated Form A and Form B
Approvals	CSA certified to US and Canadian standards
Communications	Analog output
Conformally coated	Consult factory
Warranty	5 years
Mounting	DIN, Surface (standard) Panel (with PGK-0055 or PGK-0060 adapter)