

# SE-325 SERIES (PGM-8325)

## Neutral-Grounding-Resistor Monitor



### Simplified Circuit Diagram



### Ordering Information

ORDERING NUMBER	CONTROL POWER
SE-325	120 Vac
SE-325D	120 Vac/Vdc
SE-325E	240 Vac

Consult manual online for additional ordering options.

ACCESSORIES	REQUIREMENT
CT200 Series	Required
ER Series	Required
SE-MRE-600	Optional
RK-325, RK-325I, RK-302	Optional
RK-13	Optional
NGRM-ENC	Optional

### Description

The SE-325 Neutral-Grounding-Resistor Monitor is used on resistance-grounded systems up to 25 kV to monitor the integrity of the neutral-to-ground path and to detect ground faults. It measures current and voltage in a transformer or generator neutral-to-ground connection and continuity of the neutral-grounding resistor (NGR). The SE-325 coordinates these three measurements to detect a loose connection, corrosion, ground fault, or NGR failure, and provides one alarm or trip output contact.

### Features & Benefits

FEATURES	BENEFITS
<b>Continuous NGR monitoring</b>	Detects resistor failure within seconds, reduces transient-overvoltage risk, removes risk of ground-fault-detection failure
<b>Ground-fault Detection</b>	Main or backup protection to detect a ground fault anywhere on the monitored system
<b>Adjustable pickup (0.5-4 A)</b>	Select greatest sensitivity without false operation
<b>Adjustable time delay (0.1-2 s)</b>	Adjustable trip delay allows system coordination
<b>Output contacts</b>	Form A output contact
<b>Selectable contact operating mode</b>	Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil or alarm system

### Accessories

**A**



#### ER Series Sensing Resistor

Required interface between the power system and the SE-325. Eliminates hazardous voltage levels at the monitor.

**B**



#### CT200 Series Current Transformer

Required CT detects ground-fault current.



#### RK Series Remote Indication and Reset

Optional panel-mounted remote indication and reset assemblies. Available in NEMA 1 or NEMA 4 configurations.

### Specifications

<b>IEEE Device Numbers</b>	Ground Fault (50G/N, 51G/N), Overvoltage (59N), Lockout Relay (86), Checking Relay (3)
<b>Input Voltage</b>	See ordering information
<b>Dimensions</b>	<b>H</b> 150 mm (5.9"); <b>W</b> 109 mm (4.3"); <b>D</b> 100 mm (4.0")
<b>GF Trip Level Settings</b>	0.5-4.0 A
<b>GF Trip Time Settings</b>	0.1-2.0 s
<b>RF Trip-Level Settings</b>	20-400 Vac ( $\leq 5$ kV systems) 100-2,000 Vac ( $> 5$ kV systems)
<b>Contact Operating Mode</b>	Selectable fail-safe or non-fail-safe
<b>Reset Button</b>	Standard feature
<b>Output Contacts</b>	Form A
<b>Approvals</b>	CSA certified, UL Listed (E340889), C-Tick (Australian)
<b>Conformally coated</b>	Standard feature
<b>Warranty</b>	5 years
<b>Mounting</b>	Surface