



Ground Fault Detection System

Is Your System Good to GO!



RGU-10

WGC-35

You are good to GO on green.

Digital LCD display changes to red on pre-alarm and trip.

NEW!

This RGU-10 system provides **advanced protection** against -- **and warning of** -- developing ground faults

RGU-10

Electronic earth leakage relay

- Monitors and measures True RMS ground leakage current
- Power On and Trip LEDs
- Dedicated alarm and pre-alarm contacts
- Easy-to-read backlit display
- Selectable Fail-Safe relay mode
- Front LCD display turns red upon pre-alarm or trip occurrences
- Test and Reset buttons
- Optional RS-485 (MODBUS) communications
- DIN Rail mounting
- UL listed

The RGU-10 earth leakage relays are designed to minimize damage or loss to equipment caused by destructive ground faults. The RGU-10, in combination with the external WGC series CTs, are ideally suited for motor control, motor control centers and high-voltage starters. System types can be wye or delta, grounded or resistance-grounded. When the ground fault current exceeds a pre-selected condition (current and time setting), the relay trips. The backlit display screen changes in color from green to red.

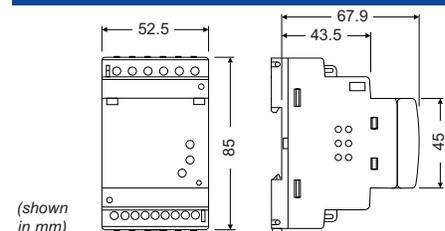
Relay contacts on the RGU-10 can be connected in the control circuit of a motor starter, to the shunt trip of a circuit-breaker or similar disconnecting or alarm device. The RGU-10 system has an inverse time characteristic to prevent nuisance tripping. The trip current value is field adjustable, up to 30A,AC. The time-delay relay is field adjustable up to 10 seconds.

(See complete technical specification on reverse side.)

ORDERING INFORMATION

Part Number	Comm.	Input (A)	Trip Sensitivity	Power Supply	Delay
RGU-10	--	0.03 ... 30A (Selectable)		110V,AC	0.02 ... 10 seconds, Instantaneous, Selectable
RGU-10 C	RS485 (MODBUS RTU)	0.03 ... 30A (Selectable)		110V,AC	0.02 ... 10 seconds, Instantaneous, Selectable

DIMENSIONS



For more information on this product, please contact:
 PC&S, Inc. at +1 (800) 523-9194 or +1 (973) 448-9400
www.pc-s.com

WGC Series

Earth leakage transformers



WGC Series - Toroidal

WGS20 Series - (on optional DIN Rail mounting)



M5ZZF1 adaptor

Earth leakage transformers (Models WGC and WG series) are available in three different case styles and a variety of sizes. The physical size of the transformer window should be carefully determined by the physical size and configuration of the power conductors.

These transformers should only be used with RGU-10 earth leakage relays.

CAUTION:

Proper safety precautions must be followed during installation by a trained electrician. It is recommended that the incoming power be de-energized before installation. The transformer must have its secondary terminals short-circuited or be properly connected to the RGU-10 relay, before energizing the primary circuit.

RGU-10 SPECIFICATIONS

PROTECTION

Measurement	True RMS
Sensitivity	0.03 ... 30A,AC
Delay	0.02 ...10 seconds (Selectable)
Earth Leakage Transformer	External, Type WGC or WG
Test and Reset	Integral Push Buttons
Remote Control	External Test Option
LED Indicator	Power supply voltage Trip due to leakage Loss of input signal Pre-Alarm
Display View	Current trip (red display on trigger) Programming parameters Instantaneous leakage current Loss of input signal
Remote Signalling	Pre-Alarm Measured parameters via RS485 communications (RGU-10 C only)

OUTPUTS

Auxiliary Power Supply	110V,AC (±20%) at 50/60Hz
Output Contacts	Dual 250V,AC, 6A resistive

STANDARDS AND APPROVALS

IEC 62020
IEC 61008-1
IEC 755
IEC 255-5
UL (File E327566)

MECHANICAL

Fixing	DIN Rail 46277 (EN 50022)
Dimensions	3 modules
Weight	0.52 lbs. (236 g)
IP Rating	IP 20 (terminals); IP 41 (back panel)
Operating Temperature	+14°F to +122°F (-10°C to +50°C)

ORDERING INFORMATION

Part Number		Dimensions (in mm)									Weight (lbs.)
WGC Series		A	B	C	D	E	F	G	H	I	
WGC25	Toroidal, 25mm dia.	25	60.5	64	-	-	-	-	-	-	2.68 oz.
WGC35	Toroidal, 35mm dia.	35	70.5	75.5	-	-	-	-	-	-	3.35 oz.
WGC55	Toroidal, 55mm dia.	55	92	98	38	-	-	-	-	-	6.38 oz.
WGC80	Toroidal, 80mm dia.	80	124.5	130	60	-	-	-	-	-	9.66 oz.
WGC110	Toroidal, 110mm dia.	110	163	168	84.5	-	-	-	-	-	1.2 lbs.
WGC140	Toroidal, 140mm dia.	140	201	206	110	-	-	-	-	-	2.7 lbs.
Accessories											
PA-TC/WG	DIN Rail mounting kit										
M5ZZF1	Front panel mounting adapter										

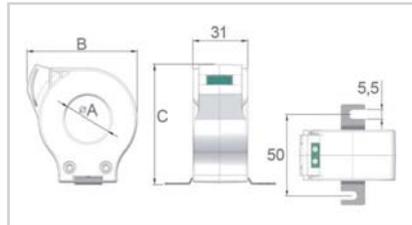
Other transformer sizes available.

DIMENSIONS AND CONNECTIONS

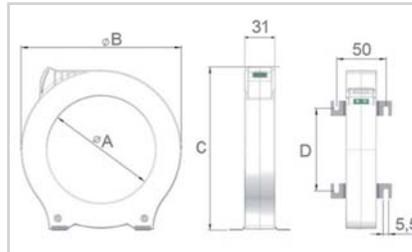
(shown in mm)

WGC Series Dimensions (Toroidal)

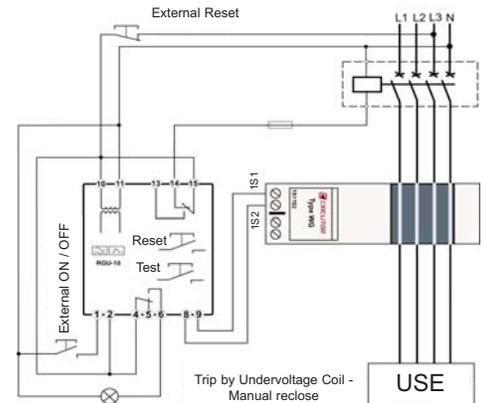
Dimensions for WGC25 and WGC35



Dimensions for WGC55 / WGC80 / WGC110 / WGC140



RGU-10 and WGC Connections



For more information and certifications, please contact:

Panel Components & Systems, Inc. ■ Phone: (800) 523-9194 ■ info@pc-s.com

Main Office:
South East:
South Central:
Canada:

Stanhope, NJ
Charlotte, NC
Tulsa, OK
Edmonton, AB

Phone: (973) 448-9400
Phone: (704) 535-3357
Phone: (862) 258-6974
Phone: (877) 962-0557



www.pc-s.com