AGT-FD SERIES
Ground Fault Measurement



AGT-FD Series Ground Fault sensors detect faults to earth from 0 mA to 100 mA and produce an output signal of 0-5/10 VDC in proportion to the amount of current passing to ground. The output is equal to the RMS value of the earth leakage. The AGT-FD can also be used to measure and monitor any low value AC circuit current by passing just one of the conductors through the sensing window.

Ground Fault Transducers Applications

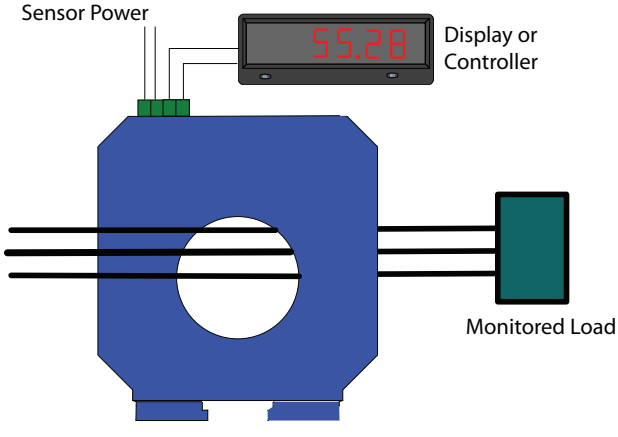
Current Leakage

- Monitor residual (earth leakage) current by passing all of the current carrying conductors through the sensing aperture.

Very Light Loads

- Monitor circuits of very low current usage by passing just one of the conductors through the sensing window.

Display Shows Amount of Fault Current Present



Ground Fault Transducers Features

Analog Output Signal

- 0–5 or 0–10 VDC proportional to 0–100 mA.
- Sensing window large enough to monitor 100 amp circuits.

Externally Powered

- Low power consumption (< 2 VA).
- 24 Volt AC or DC (20–30 V).

Factory Calibrated

- Warranted to stay accurate for five years minimum.
- Compatible with most PLCs, panel meters and other controllers.

Large Solid-core Case

- Large sensing window provides ample space for multiple conductors.

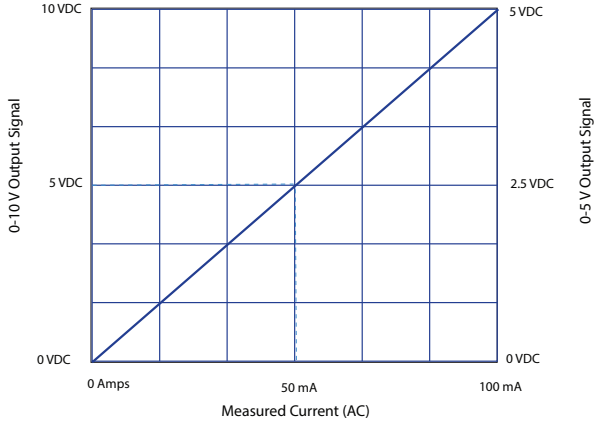
DIN Rail* or Panel Mount

- Simple snap onto DIN rail.

UL, cUL and CE Approved

- Accepted worldwide.

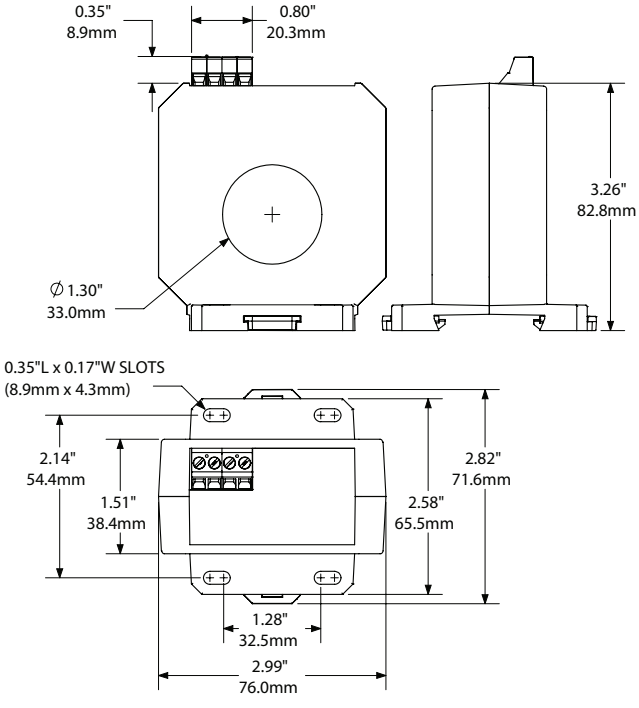
*For information on the DIN rail accessories kit, see page 147.



NK Technologies

FIVE YEAR WARRANTY
RoHS Compliant

Ground Fault Sensor Dimensions



Ground Fault Sensor Specifications

Power Supply	24 VAC or VDC (20–30 V)
Power Consumption	<2 VA
Input Range	0–100 mA
Output Signal	0–5 VDC or 0–10 VDC
Output Loading	2 KΩ minimum, 100 KΩ for best accuracy
Accuracy	+/-1% FS
Response Time	250 ms (to 90% step change)
Isolation Voltage	UL listed to 2200 VAC
Frequency Range	50/60 Hz
Case	UL94 V-0 Flammability Rated
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
Listings	UL, cUL, CE

Ground Fault Sensor Ordering Information

Sample Model Number: AGT2-010-24U-FD
Ground fault sensor, output 0–10 VDC proportional to AC current, 24 VAC/VDC powered, DIN rail or panel mounted.

	(1)		(2)				(3)				(4)	
AGT	2	-				-	2	4	U	-	F	D

(1) Model

2	0–100 mA

(2) Output Type

005	0–5 VDC proportional to AC current
010	0–10 VDC proportional to AC current

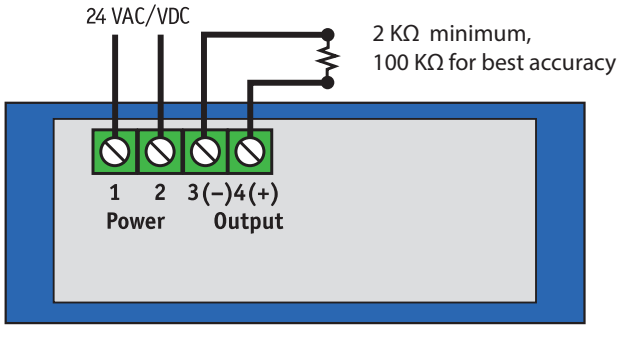
(3) Power Supply

24U	24 VAC or VDC

(4) Case

FD	Solid-core, DIN rail or panel mounting

Ground Fault Sensor Connections



Power supply and output must be isolated.

OEMs **Test & Evaluation Units for OEMs**
Free program expedites evaluation process. See page 3 for details.