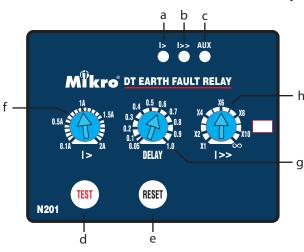
N201 DT Earth-Fault Relay User's Guide



- a Low-set start/trip status indicator
- b High-set start/trip status indicator
- c Auxiliary power supply indicator
- d Test button
- e Trip reset button
- f Earth-fault low-set adjustment
- g Delay time adjustment
- h Earth-fault high-set adjustment

TECHNICAL DATA

1. Current and Time Adjustments

Earth-fault Low-set Current (I>) Adjustment

- This adjustment is for setting the minumum earth-fault current for tripping. If the measured current exceeds this threshold value, tripping start. After a prefixed delay time determined by the DELAY adjustment, the trip contacts will be activated.
- The setting range is between 0.1A to 2A

Earth-fault High-set Current (I>>) Adjustment

- This adjustment is for setting the instantaneous tripping current due to an earth-fault.
- The setting range is from 1x to 10x of the earth-fault low-set setting value.

$$l>> = a x l>$$
 (a= 1 to 10)

- This high-set feature can be disabled by setting the tripping current to infinity (∞) .

Time Delay (DELAY) Adjustment

- The time delay setting is for setting the delay time from the starting of the earth-fault low-set tripping to actual tripping of the relay contact.
- The setting range is between 0.05 sec to 1.0 sec.

2. Light Indicators

The light indicators display the status of the system.

Indicator			Status
AUX	l>	l>>	Status
Off	Off	Off	No auxiliary power supply.
On	Off	Off	System normal mode. No tripping.
On	Blink	Off	Earth-fault low-set start.
On	On	Off	Earth-fault low-set tripped.
On	Off	Blink	Earth-fault high-set start.
On	Off	On	Earth-fault high-set tripped.

3. Push Buttons

Reset Button

- The reset button is for resetting the light indicators (I> or I>>) after an earth-fault tripping has occured.
- To reset, press the reset button once.

Test Button

- Test button is for checking the relay operation.
- Press and hold the test button, I> and I>> LEDs start blinking then LEDs turn On and relay contacts will be activated after 3s.

4. Trip Contacts

There are two set of tripping contacts namely, R1 and R2.

R1,R2 - Manual Reset Type

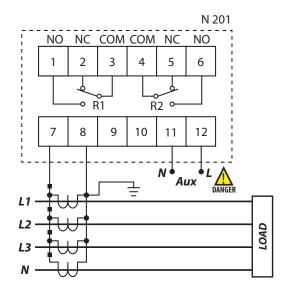
- These contacts are activated during an earth-fault trip. The contacts remain activated regardless of the removal of fault current. This relay can only be reset by pressing the "RESET" button.

5. Electrical Specification

Auxiliary Supply	
N201-240AD	85 ~ 265 VAC or 110 ~ 370 VDC
Supply frequency	50Hz or 60Hz
VA rating	3 VA typical
Trip Contact	
Rated Voltage	250 VAC
Continuous carry	$5A (\cos \varphi = 1.0)$
Expected electrical life	100,000 operations
Expected mechanical life	5 million operations
Setting Ranges	
Low-set (I>)	0.1A to 2.0A (2% to 40%)
Low-set delay time (DELAY)	
High-set (I>>)	
High-set delay time (t>>)	
Indicators	
Auxiliary supply	Green LED indicator
Pick-up	
Trip	
1117	Hed LLD Indicator
6. Mechanical	
Mounting	_
Front panel	/2x/2 mm

Approximate weight...... 0.6 kg

7. Connection Diagram



8. Case Dimensions

