# GEXA Mornitoring current relay GRI8-IW

Instruction Manual

**GEYA ELECTRICAL CO.,LTD** Add:Wenzhou Brige Industrial Zone,Beibaixiang Town, Yueqing,Zhejiang,China 325603

Tel:0086-13567770207 E-mail:sale@cngeya.com Web:www.geya.net



### General

- Applications
- -Used for overcurrent and undercurrent protection of electrical equipment. Function Features
- -True RMS measurement with high measurement accuracy.
- -Overcurrent and undercurrent selection monitoring or simultaneous monitoring.
- -The output contact is normally open or normally closed and can be set.
- -Two sets of contact outputs, which can act separately and independently.
- -36mm wide, 35mm clamp rail installation.

### ■Model and connotation



## Technical parameters

	GRI8-IW1	GRI8-IW2	
Function	Monitoring current		
Supply terminals	A1,A2		
Rated supply voltage	AC/DC24-240V 50/60Hz		
Monitoring current input terminal	E1,E2,E3,M		
Monitoring current range	AC/DC2mA-500mA 50/60Hz	AC/DC0.15A-15A 50/60Hz	
Rated insulation voltage	500V		
Hysteresis	Only over or under:5%-50%adju	stable;Over and under:fixed 5%	
Supply indication	Green LED		
Measurement error	≤5%		
Time delay	0.3s-30s		
Power up delay/Reset time	1s-20s		
knob setting accuracy	10%		
Output	2×SPDT		
Current rating	5A/AC1		
Switching voltage	250VAC/24VDC		
Min.breaking capacity DC	500mW		
Output indication	Yellow LED		
Mechanical life	5×10 <sup>6</sup>		
Electrical life(AC1)	5×10 4		
Operating temperature	-20°C to +55°C(-4°F to 131°F)		
Storage temperature	-35°C to +75°C(-22°F to 158°F)		
Mounting/DIN rail	Din rail EN/IEC 60715		
Protection degree	IP40 for front panel/IP20 terminals		
Operating position	any		
Overvoltage cathegory	III.		
Pollution degree	2		
Max.cable size(mm <sup>2</sup> )	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)		
Dimensions	90mm×36mm×70mm		
Weight	100g		
Standards	EN/IEC60947-5-1		
Model Input terminal Input	monitoring current range	Input resistance Overload capacity	

## Panel Diagram

Over/under indica	Relay 1 indication		
Power up indication	F Un/Rst I>: JUL	R1 R2	Relay 2 indication
Work mode setting	Func I<: _M_M_ OK OEF SW 1 2 3 4 5	40,50,60,70 30 20 10 15	Over threshold setting
Power up delay setting	Ti 4 11 16 18 1 208	10 T 20 5 25 Tt 0.3 309	Time delay setting
Hysteresis _setting	H 15 30,35 H 10 45 5 50%	40 50 60 70 30 20 10 10 10 10 10 10 10 10 10 10 10	Under threshold setting

### Switch settings

SW1	ON	Over or under	
	OFF	Over and under	
SW2	ON	Only over (Valid when SW1=ON)	
	OFF	Only under (Valid when SW1=ON)	
SW3	ON	Locking after over/under protection	
	OFF	Auto-reset after over/under protecttion	
SW4	ON	11/-14/21-14 Normal closed	
	OFF	11-14/21-14 Normal open	
SW5	ON	Relay 1 and relay 2 operate simultaneously (This mode is defaulted when SW1=ON)	
	OFF	Relay 1 and relay 2 operate separately Valid when SW1=OFF, R1(11,12,14)-Over, R2(21,22,24)-Under	

•Error setting while over and under mode



When the under setting value is greater than the over setting value, the indicator lights Un/Rest and F flash simultaneously, and the relay contacts are reset. When the under setting value is less than the over setting value, the indicator light and the relay are restored.

Model	Input terminal	Input monitoring current range	Input resistance	Overload capaci	
GRI8-IW1	E1-M	AC/DC2mA-20mA 50/60Hz	5Ω	Continuous input at 120% of	
	E2-M	AC/DC10mA-100mA 50/60Hz	1Ω		
	E3-M	AC/DC50mA-500mA 50/60Hz	0.2Ω	maximum input.	
GRI8-IW2	E1-M	AC/DC0.15A-1.5A 50/60Hz	0.05Ω	1 s at 150%	
	E2-M	AC/DC0.5A-5A 50/60Hz	0.015Ω		
	E3-M	AC/DC1.5A-15A 50/60Hz	0.005Ω		

### **Functions Diagram**



Un



Dimensions(mm)



## Wiring Diagram





Disposal of Electrical Waste All electrical waste should be disposed of in compliance with current WEEE regulations.



### Caution

The products must be installed by qualified electricians. All and any electrical connections of the product shall comply with the appropriate safety standards.