

**General**

■Applications

- Used for overvoltage and undervoltage protection of electrical equipment.
- Monitor weak load carrying capacity or voltage signals that require isolation.

■Function Features

- True RMS measurement with high measurement accuracy.
- Overvoltage and undervoltage 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

GRV8 - VW□

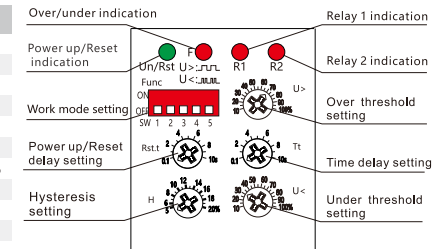
Monitoring voltage range:
1:AC/DC1V-100V 50/60Hz
2:AC/DC15V-600V 50/60Hz

Single phase isolation monitoring type
GRV8 Series

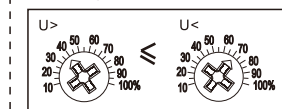
Technical parameters

Function	Monitoring voltage
Supply terminals	A1,A2
Rated supply voltage	AC/DC24-240V 50/60Hz
Monitoring voltage input terminal	V1,V2,V3,C
Monitoring voltage range	AC/DC15V-600V 50/60Hz
Rated insulation voltage	600V
Hysteresis	Only over or under:5%-20%adjustable;Over and under:fixed 3%
Supply/Reset indication	Green LED
Measurement error	≤2%
Time delay	0.1s-10s
Power up delay/Reset time	0.1s-10s
knob setting accuracy	10%
Output	2×SPDT
Current rating	5A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	Red LED
Mechanical life	5×10 ⁶
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 ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	90mm×36mm×70mm
Weight	100g
Standards	IEC60947-5-1

Model	Input terminal	Input monitoring voltage range	Input resistance
GRV8-VW1	V1-C	AC/DC1V-10V 50/60Hz	22kΩ
	V2-C	AC/DC5V-50V 50/60Hz	110kΩ
	V3-C	AC/DC10V-100V 50/60Hz	220kΩ
GRV8-VW2	V1-C	AC/DC15V-150V 50/60Hz	500kΩ
	V2-C	AC/DC30V-300V 50/60Hz	1MΩ
	V3-C	AC/DC60V-600V 50/60Hz	2MΩ

Panel Diagram**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 protection
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 undervoltage setting value is greater than the overvoltage setting value, the indicator lights Un/Rest and F flash simultaneously, and the relay contacts are reset. When the undervoltage setting value is less than the overvoltage setting value, the indicator light and the relay are restored.

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-3-

-3-

