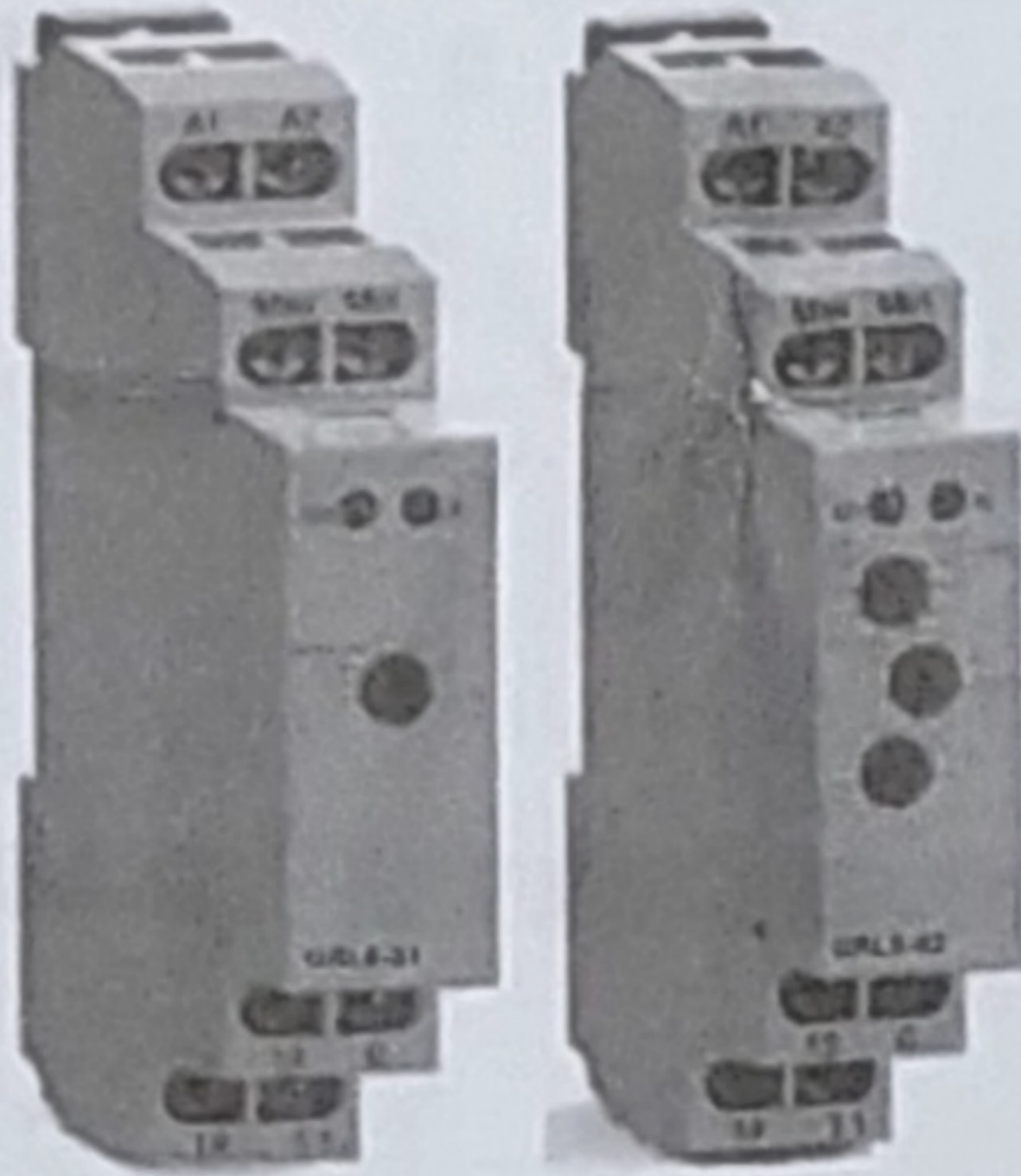# Level control relay GRL8
Instruction Manual

CE

General

■Applications
  -Designed for monitoring level in wellss, basins, reservoirs, tanks.....
■Function Features
  -In one device you can choose the following configurations:
   - 2 level control mode
   - 1 level control mode
-Choice of function PUMP UP, PUMP DOWN.
-Adjustable time delay on the output (0.1 - 10s).
-Sensitivity adjustable by a potentiometer (5-100kΩ).
-Galvanically separated supply voltage AC/DC 24-240V.
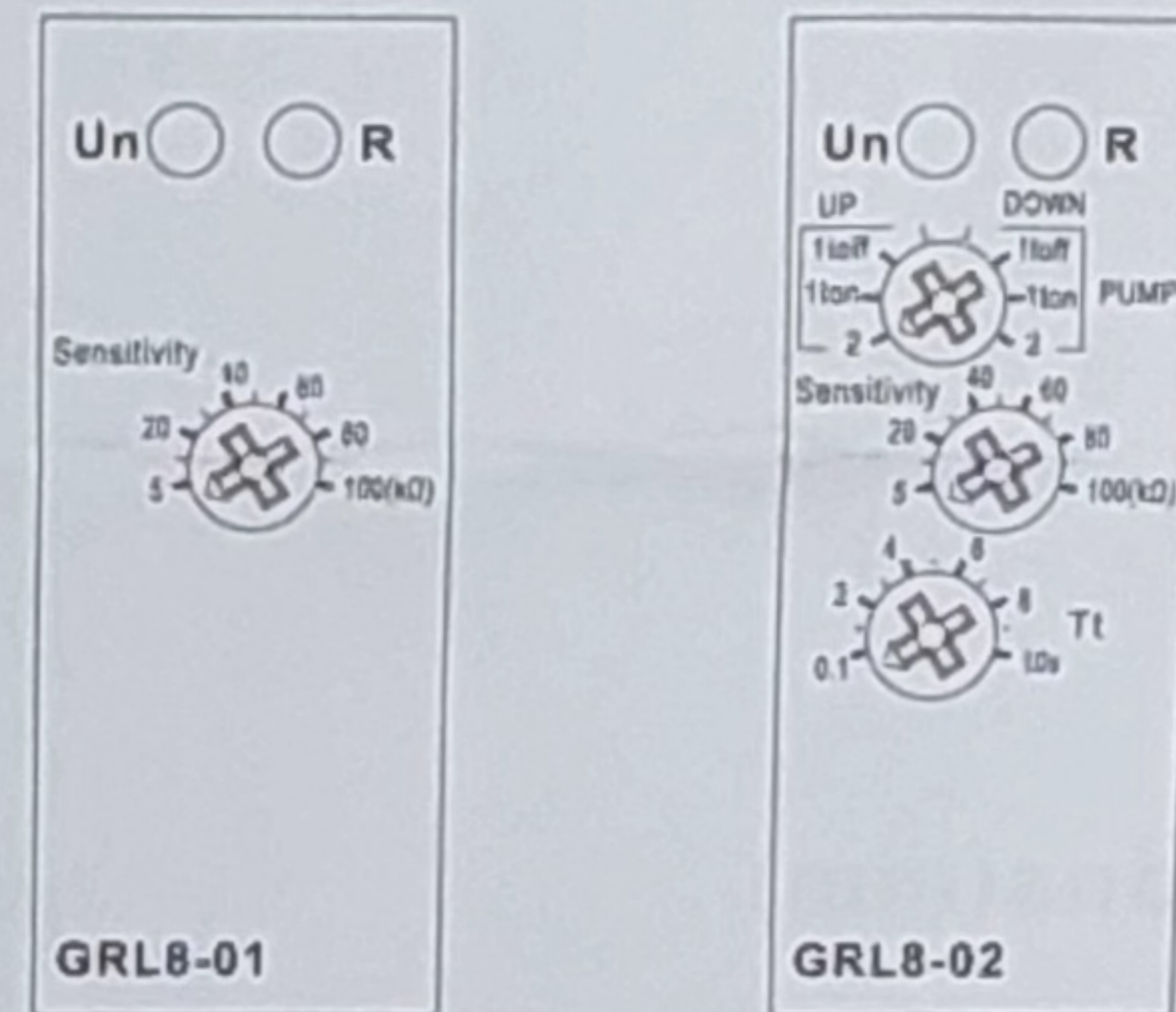- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

■Model and connotation

GRL8 —01

└─── Design number
└─── GRL8 Series
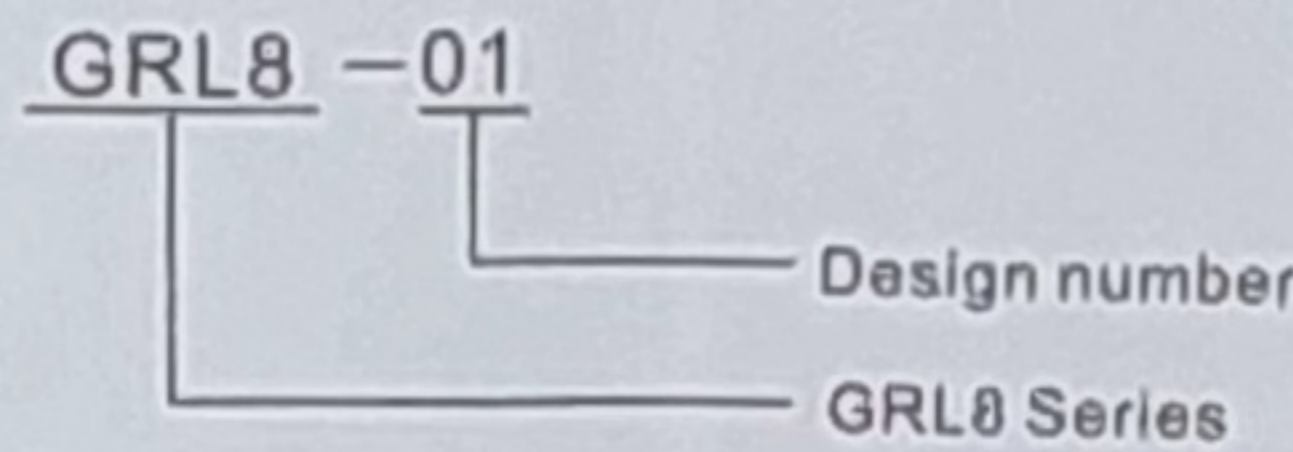
Technical parameters

Technical parameters	GRL8-01	GRL8-02
Function	2 level contorl mode	2 or 1 level contorl mode
Supply terminals	A1-A2	
Voltage range	AC/DC 24-240V(50-60Hz)	
Input	max.2VA	
Supply voltage tolerance	-15%;+10%	
Sensitivity (input resistance)	adjustable in range 5 kΩ –100 kΩ	
Voltage in electrodes	max. AC 5 V	
Current in probe	AC <0.1 mA	
Time response	max. 400 ms	
Max. capacity length	800 m (sensitivity 25kΩ), 200 m (sensitivity 100 kΩ)	
Max. capacity of probe cable	400 nF (sensitivity 25kΩ), 100 nF (sensitivity 100 kΩ)	
Time delay (t)	adjustable, 0.1 -10 s	
Accuracy in setting (mechanical)	±10 %	
Temperature coecient	0.05%/℃,at=20℃(0.05%℉ , at=68℉)	
Output	1×SPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	$1×10^7$	
Electrical life(AC1)	$1×10^5$	
Reset time	max.200ms	
Operating temperature	-20℃ to +55℃ (-4℉ to 131℉)	
Storage temperature	-35℃ to +75℃ (-22℉ to 158℉)	
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(mm²)	solid wire max.1×2. 5or 2×1. 5/with sleeve max.1×2. 5 (AWG 12)	
Tightening torque	0.8Nm	
Dimensions	90×18×64mm	
Weight	70g	72g
Standards	EN 62055-1	

Panel Diagram

GRL8-01   GRL8-02

Wiring Diagram

2 level control   1 level control