

NRM-10

ADJUSTABLE RELAY MODULE



DESCRIPTION

The **NORPOSH** NRM-10 is a Digital, advanced in features, compact and economical adjustable relay module. It takes 0-10VDC input and turns on/off relay at user adjusted ON and OFF switch points. The module has 0-99s adjustable time delay as well. On board seven-segment display shows input voltage, switch points and time delay therefore switch points and time delay can be adjusted accurately via three push buttons on board.

SPECIFICATIONS

Power Supply	24VAC/DC
Input (+IN)	0-10VDC, R_{in} 100K Ω
Buffered output (+OUT)	0-10VDC, I_{out} 5mA@10VDC
Switch Points Range	ON (0.1-10V), OFF (0-9.9V)
Display Resolution	0.0-9.9V(0.1V), ~ 10V(1V)
Time Delay	0-99 seconds
Volt-free relay output (SPCO)	8(2)A, 250VAC
Dimensions	34 x 82 x 46 (W x H x D)



FEATURES:

- Extremely compact, fully Microprocessor controlled with seven-segment display. Input voltage and switch points are displayed on seven-segment with 0.1V resolution
- High impedance 0-10VDC input, typ.(100K Ω) and low impedance buffered output typ.(5mA@10VDC)
- 0-99 seconds accurate time delay
- Relay ON/OFF switch points and time delay can be adjusted accurately via push buttons
- Volt free relay output (SPCO)
- Visual LED relay status
- Jumper link for commissioning, ON/AUTO (OFF when link is removed)
- 24VAC/DC powered
- Din-rail PCB Holder

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OPERATION

Setting the Relay Switch Point is extremely simple. Press **SET** button repeatedly to select **TIME DELAY**, **ON** and **OFF** Relay Switch Points.

Corresponding LED will lit for the selected parameter. Use **▲** and **▼** button to modify selected parameter. If no key is pressed for a while, the rectangular LEDs will go off after 10sec and the display will show input voltage. After 30sec energy saving mode is activated and the display goes off and dot point starts blinking.

For commissioning, a header with shorting link has been provided. Removing the link will de-energize the relay while connecting the link between **ON** terminals, will energize the relay regardless of the input voltage or switch points. Relay status can be observed by LED1, which is lit when the relay is energized. A buffered output is provided to drive low impedance 0-10VDC inputs. Output voltage is approximately equal to the input voltage provided that the load connected to buffered output doesn't exceed the given specification.

DIMENSIONS

