

RR-VDU/RR-VDU01

Universal Digital Timer & Flasher

1. INTRODUCTION

RR-VDU/RR-VDU01 is microcontroller based multifunctional timer. Device has four different selectable operating modes. Time adjustment range is from 0.01 sec. to 99 min. for RR-VDU01 and from 1 sec. to 99 hours for RR-VDU.

2. USAGE OF RR-VDU/RR-VDU01

For getting better performance, the operation mode and time adjustments must be set after mounting.

- **Operation Mode:** The device has four operation modes;
P1: On-Delay Timer
P2: Off-Delay Timer
P3: On-Delay Flasher
P4: Off-Delay Flasher

Operation mode can be selectable by using ↓ or ↑ buttons. If user keeps pressed ↓ or ↑ buttons for 5 second, the current operation mode will be displayed on the screen. User can choose one of P1, P2, P3, P4 operation modes and waits for 3 second to set the selected operation mode. When the display flashes the screen, the selected mode is stored in memory.

- **Time Setting:** After having the operation mode been set, ↓ or ↑ buttons are both pressed at the same time.

For RR-VDU: “h” LED will start blinking to inform that “hour” is going to be set. By using ↓ or ↑ buttons, the desired “hour” setting can be programmed from 0-99h. Keep waiting for 3 seconds will allow the second “h” LED will be turned off and the minute “m” LED be started blinking. In Following, the user can set “minute”(m) setting from 0-99 min. Keep waiting for 3 seconds will allow the minute “m” LED will be turned off and the second “s” LED be started blinking. In following, the user can set “second” (s) from 1-99 sec. and waits for 3 second. The required time setting steps can continue as for 2nd time adjustments if provided that P3 or P4 programs are chosen.

For RR-VDU01: “m” LED will start blinking to inform that “minute” is going to be set. By using ↓ or ↑ buttons, the desired “minute” setting can be programmed from 0-99 min. Keep waiting for 3 seconds will allow the second “m” LED will be turned off and the second “s” LED be started blinking. In following, the user can set “second”(s) setting from 0-99 sec. Keep waiting for 3 seconds will allow the second “s” LED will be turned off and the millisecond “ms” LED be started blinking. In following, the user can set “millisecond” (ms) from 1-99 min. and waits for 3 second. The required time setting steps can continue as for 2nd time adjustments if provided that P3 or P4 programs are chosen.

Be noted that the device is reset in time of electrical interruption.

3. CONNECTION DIAGRAM

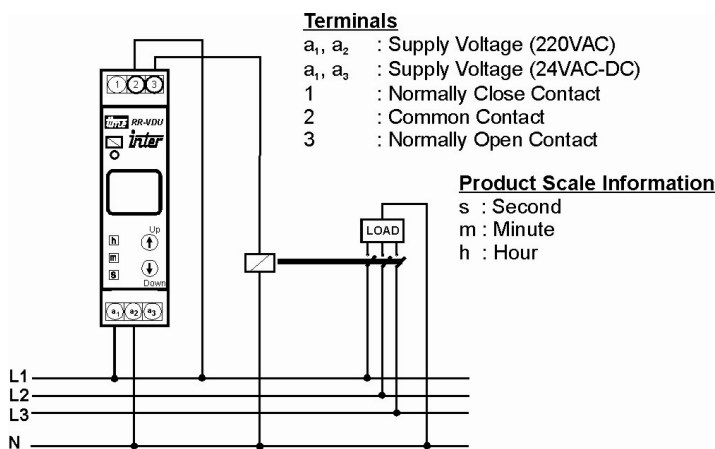


Figure-1 Connection Diagram

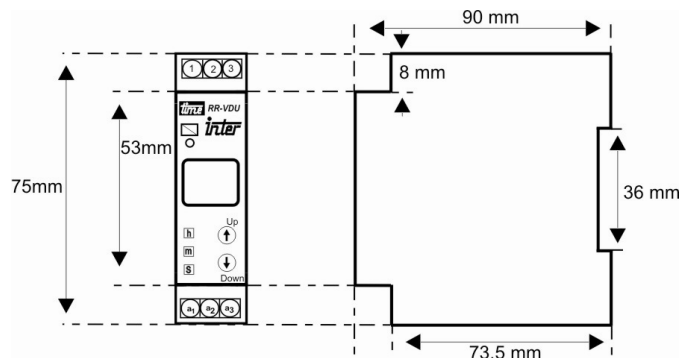
4. TECHNICAL SPECIFICATIONS

Operating Voltage (Un)	a ₁ , a ₂ a ₁ , a ₃	220VAC 1 Phase + 1 Neutral 24VAC-DC
Operating Range		(0.8-1.2)xUn
Operating Frequency		50 / 60 Hz
Time Selection		RR-VDU: 1 sec.-99 hours RR-VDU01: 0,01 sec.-99 min.
Contact Output		250VAC-5A, 24VAC-DC 5A
Display		7 Segment LED display
Mounting Type		Rail mounted
Protection Class		IP 20
Plastic Material		V0 Nonflammable
Operating Temperature		-25°C ... +65°C
Weight		90 gr.

5. SAFETY & WARNING INSTRUCTIONS

- Turn off power during connection/wiring.
- Check correct mains voltage/wiring terminal.
- Installation shall only be performed by qualified personnel.
- Do not use any solvent or alike for cleaning.

6. MECHANICAL DIMENSIONS



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