

RM4-RTC Real Time Clock

Process Unit. DIN Rail Mounted

Functions as:

Display/Alarm/Time Switch/ Master Clock/ & Computer Interface



Description

Model RM4-RTC is a DIN rail mounted process unit which can function as an indicator/alarm/controller/transmitter/computer interface. The instrument features flexible pushbutton calibration and programming. All settings and calibration scaling is carried out via pushbuttons.

The real time clock monitor has a selection of display options. The clock may be set to display in 24 or 12 hour format. User selectable display formats are:

Hours.Mins e.g. **14.22**
Days e.g. **364**
Day.Month e.g. **07.11**
Month.Day e.g. **11.07**

Clock synchronisation may be via internal clock chip, 50Hz or 60Hz mains synchronisation or optional GPS satellite transmission. The clock circuitry is backed up by battery which means that, in the case of power failure, the time does not need to be reset when power is re-applied to the display.

Two alarm relays are provided as standard. Combinations of optional outputs including extra relays, analog retransmission or serial communications (ASCII or Modbus RTU) can also be provided. In "hours.minutes" mode up to 32 alarm times can be set, the user then selects which alarm relay will operate for each setpoint, which days of the week the setpoint will be valid and the duration of the alarm activation i.e. the length of time (must be less than one day) for which the relay will activate when it sees a valid alarm time.

The RM4-RTC can be set up with other RM4-RTC instruments or their panel meter (PM4-RTC) or large digit display (LD4-RTC) equivalents to be a master or slave clock when used with the serial communications option. For example the RM4 could be housed in a convenient site for adjustment and used as a master clock controlling a large digit display mounted high on a wall.

An external input is configurable to perform one of various functions e.g. Two level brightness switching, setpoint only access or security lockout. Electrical isolation between power supply and retransmission eliminates grounding and common mode voltage problems. This isolation feature makes the RM4 ideal for interfacing to PLCs, computers and other data acquisition equipment.

Features

- Battery backed clock circuit
- Versatile display modes
- Internal clock or 50Hz/60Hz mains sync.
- Can be used as a master or slave clock when optional serial communications is used
- 240V, 110V, 48V, 42V, 32V, 24V AC, 12 to 48V DC or 50 to 110V DC operation (factory configured)
- Two alarm/control relay outputs (5A) with visual indication of relay state via annunciator LEDs
- Up to 32 setpoint times can be programmed in "hours.minutes" display mode
- 5 digit LED display and relay/alarm status LEDs
- Isolation between output and supply
- Programmable display brightness reduces power consumption and controls glare in low brightness areas.
- Auto dim feature conserves power
- Rugged aluminium DIN rail mount housing
- 2 year guarantee

Options

- GPS synchronisation
- Isolated RS232, RS422 or RS485 serial comms. with choice of ASCII or Modbus RTU protocol
- Additional relays

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