

Real Time Clock Module

For use with Time & Frequency Solutions' M210 and M211 Modular Timing Systems. This module maintains the timekeeping of the timing system, even during periods when the power to the timing system is unavailable.



Features

- Maintains timing system timekeeping
- Ensures most accurate time and date information
- Continual time sync with oscillator if loss of power occurs

Module Benefits

Upon synchronization of timing system to the selected time source, the Real Time Clock Module stores the validated time and date information.

This storage process is repeated each time the timing system synchronizes to the time source, thereby ensuring that the Real Time Clock module contains the most accurate time and date information.

Upon loss of the power to the timing system, the Real Time Clock module continues to accumulate time based upon its internal oscillator.

Once the power supply to the timing system is resumed, the time and date from the Real Time Clock Module is available for use by the timing system.

This ensures that time and date information is immediately available without the need for resynchronization.

Real Time Clock Module Specifications

Performance

The Real Time Clock Module provides the Timing System with time and date Information for processing by the Software. The Real Time Clock Module allows for the following functions:

- Immediate update of the Timing System's time and date upon restoration of power following an outage.
- Validation of incoming synchronised time by comparison of Real Time Clock time and date to information from synchronising source.
- Synchronisation of Timing System if synchronised time source is unavailable.

The Real Time Clock can be manually set or automatically updated depending upon the application.

Accuracy : ± 1 Minute per month at 25°C

Standby Power : > 10 Years

Capacity

Environment)Operation & Storage)

Temperature : 0°C to +40°C

Humidity : Up to 95% RH (non-condensing)

EMC : CE Compliant

Ordering Information

Please quote part number when ordering: 0210DV000X

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