

High Capacity Modular System Model 211



The Time & Frequency Solutions' M211 Timing System is designed for use in applications where reliable time information is required. Such applications may involve the display of time of day, the synchronization of computer systems or other diverse areas such as scientific experimentation.

The M211 Timing System provides a Master Clock which is based upon a central microprocessor. This provides all the timekeeping functions utilizing an internal oscillator. A front panel keyboard is used in conjunction with an alphanumeric display for control and configuration of the unit. Such features as time entry and option configuration are achieved through the use of this facility. The display also indicates time, date and status information. The M211 Timing System is designed to allow the inclusion of a large number of options such as data interfaces and standard time receiver modules. These options allow the output of time and date in various formats together with the automatic synchronization of the Master Clock to the various national and international time standards that are available. The inclusion of a precision oscillator ensures a high long term stability for the Timing System.

The M211 Timing System is designed to support applications requiring a large number of varied interfaces, or the inclusion of high precision oscillators. The provision of 9 module slots gives great scope to the functionality of the M211 Timing System, while it still remains compact within a 3U 19" rack mountable unit. This ensures that the M211 Timing System can fulfill complex system requirements which are beyond the capacity of the smaller M210 Time System.

A great variety of option cards are supported, see the separately supplied sheet for an up to date list of option availability.

Specifications

Options

A range of options are available for the M211 Timing System. These options include serial data outputs (RS-232, RS-422, 20mA Current Loop), parallel BCD output, time code outputs (IRIG, etc) and analogue clock impulse drives. Time Receiver and Precision Oscillator options are also available. New options are continually becoming available. Consult our sales office or web site for details of any requirements.

Performance Specification at 20°C

Time Accuracy:	Standard crystal oscillator maintains free-run accuracy of 20 milliseconds over 4 hours at 20°C.
Display:	Alphanumeric backlit LCD. Character height 5mm.
Keyboard:	5 button keyboard for equipment configuration and control
Power:	115/230V AC \pm 10% 48-62Hz Load 50W (typical - subject to options and oscillator fitted) Connection by means of 3 pin IEC
Mechanical:	19 inch rack mounting 3U high 360mm deep. The chassis has provision for up to 9 option cards to be fitted within the unit.

Environment (Operation & Storage)

Temperature:	0°C to +40°C
Humidity:	Up to 95% RH (non-condensing)
EMC:	CE Compliant

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