

M210

Modular Time & Frequency System

The M210 Modular Time & Frequency System is a highly flexible timing system designed for use in any applications where reliable time information is required, especially to synchronise different output interfaces.



See also: M211 High Capacity Modular Time & Frequency System which has 9 module slots for even greater capacity



Features

- 3-slot module output capacity
- Choice of clock synchronisation options
- Choice of master clock accuracy
- Large range of output options
- 1 U high standard 19" rack mount
- 5-segment front panel button for equipment configuration and control
- Large alphanumeric display of time, date and status
- Equipment configuration stored in non-volatile memory

Input Synchronisation Options

- Satellite (GNSS)
- Analogue timecode (IRIG-B, AFNOR, IEEE1344)
- Terrestrial Low Frequency (MSF, DCF77)
- Serial timecode (RS232, RS422)
- NTP

Output Options

- Serial data outputs (RS232, RS422)
- Time code outputs (IRIG, AFNOR, IEEE1344)
- Frequency (5/10/1.544/2.048 MHz)
- Pulse Per Second PPS, PPM, PPH
- NTP
- Dry Contact Status Alarms

Master Clock (Oscillator) Options

- Disciplined Temperature Compensated Crystal Oscillator (TCXO)
- Precision Oven Controlled Crystal Oscillator (OCXO)
- Rubidium (Rb)



M210 Specifications

Performance Specification at 20°C

Time Accuracy:	Standard crystal oscillator maintains free run accuracy of 20 milliseconds over 4 hours at 20°C. Accuracy to UTC depends on the input source. Other free run accuracies depend on the oscillator option selected and the prior synchronisation time.
Display:	2 row by 40 character LCD. Character height 5mm.
Keyboard:	5-segment button keypad for equipment configuration and control. Storage of equipment configuration in non-volatile memory.
Power:	90-260V AC \pm 10% 50-60Hz Load 40W (typical)- subject to options and oscillator fitted. Connection via 3 pin IEC plug.
Mechanical:	19 inch rack mounting 1U high 305mm deep.

Environment (Operation and Storage)

Temperature:	0°C to +40°C
Humidity:	Up to 95% RH (non-condensing)
EMC:	EN61000-6-3:2007 + A1:2011 EN61000-6-2:2005 EN50121-4:2016 + A1:2019

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