

# Parallel Interface Module

For use with Time & Frequency Solutions' M210 and M211 Modular Timing Systems. The Parallel Interface Module provides a versatile solution to the requirement for accurate time data in parallel format.



## Features

- **Output type options:**
  - 24 bit parallel word
  - 8 bit Centronics port
  - Timing pulse outputs
- **Data Interface Options:**
  - TTL compatible
  - Opto-isolated
- **Alarm facility** - In the event of loss of power or a failure in the main equipment, the alarm condition is indicated by a relay changeover.

## Parallel Interface Module Specifications

### Module Connections

Parallel data output and alarm changeover contacts: 62 way D type 'density and a half' socket. Interface cabling for this connector is available upon request.

### Output Type Selection

Three types of data output are provided by this module:-

**Parallel:** A 24 bit parallel data word of time and date is provided.

**Centronics:** An 8 bit parallel data word of time and date is provided.

Handshake lines are also provided for transfer of data bytes in accordance with the Centronics protocol.

**Pulse:** Timing pulses are available on the Parallel Data Port. Pulses are of one second duration and can be pre-programmed to occur at fixed times.

The choice of data output is selectable using the Timing System front panel keyboard. The required selection is stored in non-volatile memory.

### Ordering Information

Please quote part number when ordering: 0210HX000C

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V. 1.0

### Data Interface Type

The module can be configured to provide two types of hardware interface:-

TTL Compatible: The data output is suitable for connection to TTL devices.

Opto isolated: Data is provided via 24 opto-isolators, which may be powered from either an internal (ie. within the main equipment) or external source.

Either of the above interfaces is available for any of the 3 types of data output.

**Alarm Relay** A changeover alarm relay is provided which indicates powerfail and system fail. The relay contacts are rated at 7A @ 30VDC.

### Environment (Operation & Storage)

Temperature : 0°C to +40°C

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

EMC : CE Compliant