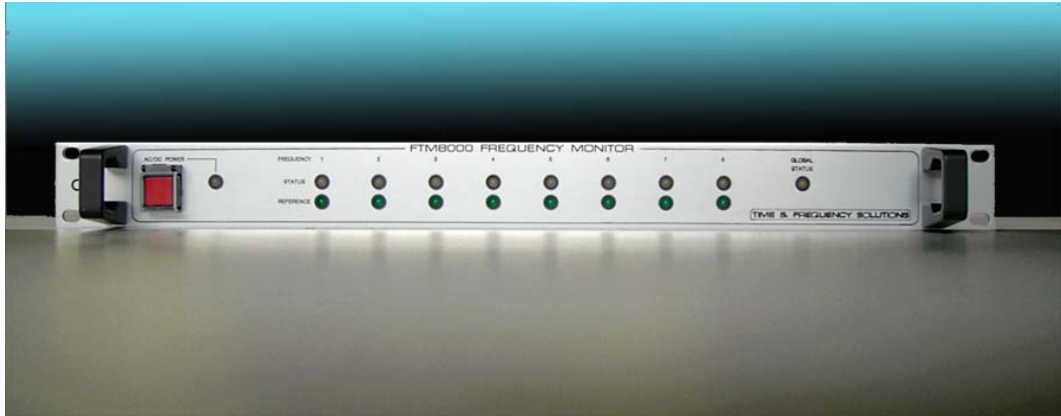


FTM8000 Frequency Monitor

The FTM8000 Frequency Monitor allows local and remote high-resolution monitoring of up to seven standard frequency inputs against a reference frequency input.



Features

- Up to seven 5MHz or 1MHz inputs available
- Phase measurement down to 250ps
- Frequency measurement down to 2.5×10^{-10}
- Hardware status port & front panel error indicators
- Comprehensive alarm outputs

The monitor indicates the status of the connected frequencies and the selected reference on its front panel. A hardware status port is also provided. Relative phase and fractional frequency difference measurements of each input compared to the reference input are reported at a selectable time interval through an RS232 or RS422 serial port connection.

The user can select which fields are to be included in the output message by means of a simple command. Similarly, unused inputs can be designated as not in use to eliminate status error reports and unwanted measurements.

The monitor allows problem frequency sources to be identified rapidly and designated for de-selection if required. The standard frequencies are 10MHz sine-wave sources but the unit can be factory reconfigured to accept 5MHz or 1MHz inputs. The instrument can be supplied with 50-ohm or 75-ohm input connectors.

Specifications

Item	Specification
Interface	9-way D-type Serial Interface (RS232) 15-way D-type Frequency Status Output 5-way Alarms Output 8* 50ohm BNC Input Jacks Mains and DC Connector
Standard Serial Interface	9600 baud, 8 data bits, no parity, 1 stop bit, no flow control
Interface Type	RS232 or RS422 by internal jumper selection
Frequency Input	Nominal: 1Vrms (+13dBm) sinewave or squarewave Minimum: 0.22Vrms (0dBm)
Data Output Frequency	1/s, 10/s, 100/s, or 1000/s
Termination	50-ohm or 75-ohm jumper selectable internally (Note: not fitted at factory)
Phase Resolution	250ps
Phase Range	±0.53seconds (internal 32 bit count of 250ps units)
Frequency Difference Resolution	±2.5E-10 in 1 second from 0 to ±100ppm
Frequency Difference Range	±100ppm
AC Power Supply	85-264 Vrms @47-63Hz 12VA Typical
AC Power Fuse	T1A Slow-blow 20mm Glass
DC Power Supply	24V nominal (19-36V) @300mA (400-200mA) Typical, 24mA Standby
DC Power Fuse	T1.25A 20mm PCB Mounted
Mechanical	19" 1U rack mounting, 305 mm deep
Weight	2kg
Temperature (Operation)	-10oC to +50oC
Humidity	Up to 95% RH (non-condensing)
EMC	CE Compliant

As we are always seeking to improve our products, the information in this document only provides general indications of product capability, suitability and performance, none of which shall form any part of any contract.

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