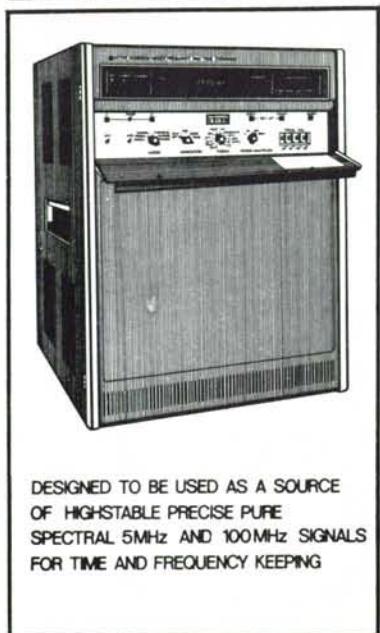




радиоизмерительная  
техника

# Active Hydrogen Maser Frequency and Time Standard CH1-75



DESIGNED TO BE USED AS A SOURCE OF HIGHSTABLE PRECISE PURE SPECTRAL 5MHz AND 100MHz SIGNALS FOR TIME AND FREQUENCY KEEPING

## APPLICATION

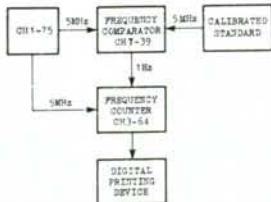


Fig.5. Frequency standard calibration block-diagram using external frequency comparator

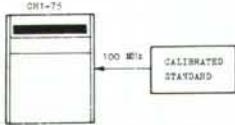


Fig.6. Frequency standard calibration block-diagram using a built-in comparator and a frequency counter

Active maser frequency standards provide metrological verification of quantum frequency standards of different types (rubidium, cesium, hydrogen and others) during their development, production and service. (Fig.5,6).  
 • On the base of time and frequency hydrogen standards small-size time and frequency systems are developed.

詳しい資料のご請求は営業本部まで

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## COMPOSITION AND PRINCIPLE OF OPERATION

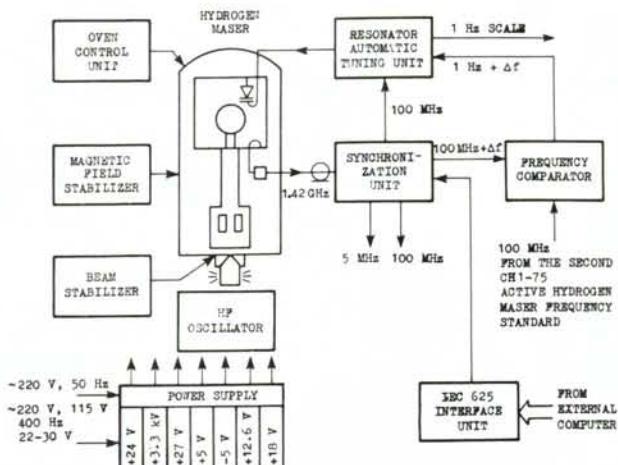


Fig.1. CH1-75 Simplified Block-diagram.

The CH1-75 principle of operation (Fig.1) is based on 5 MHz crystal oscillator frequency phase locking to the hydrogen maser signal.

