

General Purpose Transmitter

GPT-750 Series

Brief Historical Background

The original GPT-750 transmitter was designed by TMC in 1955-56 with initial production beginning in 1957. The transmitter series - in all its many and varied versions - was manufactured continuously for 20 years, until the end of 1975. Over 2,500 transmitters were manufactured for worldwide distribution in that period.

The GPT-750 was originally designed for continuous wave (CW), frequency shift keying teletype (FSK) and facsimile (FAX) operation. Many were configured this way and sold to the US Armed Forces for use on long-haul HF links. Later on, a high-level modulator was added for Amplitude Modulated (AM) operation. Relatively few (about 100 units) were manufactured in this configuration since single sideband was beginning to appear.

With the introduction of TMC's first single sideband exciter, the SBE-1, the GPT-750 transmitters were re-designed for linear amplifier operation. The SBE-1 was used as the primary RF drive unit and was physically installed in the transmitter cabinet under the final RF deck. This configuration (Model GPT-750D2) proved to be the most popular model of the entire series. It found extensive use worldwide in government, commercial and industrial organizations such as the United Nations, armed forces within and outside the US, embassies and consulates, oil exploration companies, and police/security forces within over 120 countries. In many of these countries, the GPT-750 has proved so reliable that it is still in operation carrying high seas message traffic between countries and continents.