

XMT-32S

Transmitter Controller



DESCRIPTION

The XMT-32S Transmitter Controller produces timing signals for controlling all of the Zonge Engineering GGT, ZT and NT transmitters. Provision is made for synchronizing multiple controllers and GDP receivers. Frequency control can be accomplished either manually or by a time sequence program which is loaded through the RS-232c port. Time sequence status and frequency are displayed on an LCD on the front panel.

FEATURES

- Time or frequency domain control
- Frequency range: 1024 second period to 8192 Hz
- Compatible with all Zonge-series transmitters
- Automatic transmitter control via time table
- Calibrator output
- LCD frequency display



Zonge Engineering and Research Organization, Inc.

Specialists in Electrical Geophysics

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SPECIFICATIONS FOR THE XMT-32S TRANSMITTER CONTROLLER

General

Synchronous time-base with internal calibrator
Time or Frequency domain capability, 50% or 100% Duty cycle
Frequency range in Binary Steps:
1024 sec. to 8192 Hz
Size: 28 x 21 x 18 cm (11 x 8 x 7 in)
Weight: 6.4 kg (14 lb)
Enclosure: Heavy duty, environmentally sealed aluminum case
Power: 12 V rechargeable battery
more than 10 hours continuous operation
Temperature range: - 40° to +60°C (- 40° to 140°F)
Humidity range: 0 to 95% non-condensing
Time base: Oven-controlled crystal oscillator;
aging rate $<5 \times 10^{-10}$ per 24 hours
(optional crystal: 1×10^{-11} per 24 hours)

Displays & Controls

LCD frequency display
Phase/Battery meter
Time/Frequency domain switch
Phase/Battery meter switch
Calibrate output switch:
0.025 / 0.25 / 2.5V PP
Reset switch
Frequency range stepping switch
Auto/Manual switch for time table operation
Mode stepping switch
Circuit Breaker

Outputs & Inputs

12V Battery charge input
Transmitter control/synchronization Input/Output
RS-232c Input/Output for time series
Calibrate output

Functions

Can be synchronized with Zonge-series receivers for synchronous measurements
Designed to control Zonge-series transmitters in both time and frequency domain
Continuous phase coherency between 1024 second period and 8192 Hz
20 milliamp signal outputs for transmitter control
Reset pulse output for GDP-series receiver
Capable of controlling other manufacturer's transmitters (Inquire for Compatibility)

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Zonge Engineering and Research Organization, Inc.

Offices:

Arizona, Alaska, Nevada, Colorado and Minnesota

Headquarters:

3322 E. Ft. Lowell Road, Tucson, AZ 85716, USA (800) 523-9913
Tel: (520) 327-5501 Email: zonge@zonge.com
Fax: (520) 325-1588 Web: <http://www.zonge.com>