



# ZTEM30

## Geophysical Transmitter

EM / Low Voltage Resistivity Transmitter



The ZTEM30 is a transmitter capable of producing time-domain or frequency-domain waveforms into either resistive or inductive loads. As a TEM transmitter, the ZTEM30 can deliver up to 30A into a 100m loop with a turnoff time of less than 200  $\mu$ s. Because the ZTEM-30 also performs well while transmitting into resistive loads, some customers can use it as a low-power resistivity transmitter.

### FEATURES

- Bipolar current output up to 30 A
- 50 or 100% duty cycle
- 1 $\mu$ s turnoff into resistive load
- Reverse polarity input protection
- Less than 150 $\mu$ s turnoff into a 100 meter loop at 20 amperes
- Lightweight externally powered

# SPECIFICATIONS FOR THE ZTEM30 TRANSMITTER

## Mechanical

- Case size: 24.6 x 20.3 x 25.9 cm  
9.7 x 9.8 x 10.2 inches
- Weight: 6.6kg, 14.5 lbs.

## Electrical

### Logic Power

- Logic supply: 9 to 140V
- Peak current draw: 1.6A
- Average current @ 12V: <1ampere

### Input Power

- Touch Proof SurLok Plus™ Connectors
- 11 to 400 volts

### Transmitter control by:

- GDP receiver
- XMT-series
- ZEN

### Output

- Peak current: 30Ampere unregulated
- 11 to ~400 volts
- over-current shutdown (set for 33 A)
- IGBT current switch
- Power removed from transmitter output during fault conditions

### Transmitter frequency:

- DC to 32 Hz time domain
- DC to 8196 Hz frequency domain

### Current monitor

- 4mm Sheathed Banana Jack
- isolated output
- 10mV/Ampere

## Controls & Displays

### Switches

- Transmit / Reset (illuminated)
- Range (Current display)
- Display Select
- LED Displays

### Fault Indicators

- Logic Power Over-, Under- Voltage
- Input Over Current
- Output Over Voltage
- Output Over Current
- Over Temperature
- Input Over Voltage (DC-Link)

### Volt Meters

- Input Voltage
- Logic Voltage

### Status Meter

- Output current
- Turnoff time
- Heat sink temperature
- Input power

### Status Indicators

- Transmitting (Illuminated switch)
- Reset (2s Illuminated switch)
- Output Polarity LEDs
- Period (on front side panel)
- Duty Cycle (on front side panel)

## Applications

- TEM transmitter
- TD & FD Resistivity/IP

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