# Zonge ZT-30 40 Years Geophysical Transmitter

# Battery-Powered EM / Resistivity Transmitter



The ZT-30 is a battery-powered transmitter capable of producing time-domain or frequency-domain waveforms into either resistive or inductive loads. As a TEM transmitter, the ZT-30 can deliver up to 30A into a 100m loop with a turnoff time of less than 200  $\mu$ s. Because the ZT-30 also performs well while transmitting into resistive loads, some customers are using it as a low-power resistivity transmitter. When used for resistivity, it is necessary to monitor the current since the transmitter does not have current regulation circuitry.

### **FEATURES**

- Bipolar current output up to 30 A
- 50 or 100% duty cycle
- 1 microsecond turnoff into resistive load
- Less than 150 microseconds turnoff into a 100 meter loop at 20 amperes
- Lightweight, battery powered

### SPECIFICATIONS FOR THE ZT-30 TEM TRANSMITTER

Mechanical

Case size: 45 x 18 x 28 cm

(17.7 x 7.1 x 11.0 in)

Weight: 8 kg (17.6 lb) (without batteries)

**Electrical** 

Input voltage: 14 to 136 Vdc (400 Vdc selectable)

Peak output current: 30 A unregulated

Transmit control by GDP receiver or XMT-series

Transmitter controller

 $(DC \le f \le 32 \text{ Hz TD}, DC \le f \le 512 \text{ Hz FD})$ 

Isolated current monitor output

Automatic overcurrent shutdown (set for 33 A)

IGBT power output current switch

Power contactor to remove voltage from

transmitter during fault conditions

Lamps to indicate state of transmitter:

power on, transmitting, fault, polarity

Fan-cooled heatsink

**Controls & Displays** 

Power on / off

Transmit / Reset

**Damping Select** 

Meter Select

LCD Displays:

Input voltage

Internal battery voltage

Output current

Turnoff time

Heat sink temperature

**Fault Indicators** 

Over / Under Voltage

Over Current

Over Temperature

**Output Jacks** 

Current monitor terminals, isolated output

100 mV/A or 1 V/A ranges

Output current terminals

**Power** 

Internal battery: 10.9 to 14V, Logic Power

Main Power connector: four-pin military twist-lock,

14 - 400 Vdc

**Applications** 

TEM transmitter, 136 Vdc max @ 30 amps

Low current transmitter for TD & FD Resistivity/IP,

400 Vdc max @ 7 amps

**Options** 

ZPB-600 400 Vdc Power Booster

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