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 µs. 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 ≤ f ≤ 32 Hz TD, DC ≤ f ≤ 512 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

**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

*Specifications subject to change without notice
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