

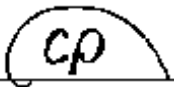
# THE NT-20 TRANSMITTER

*Multi-function  
Battery Powered  
TEM Transmitter*



## FEATURES

- Dual output: NanoTEM<sup>®</sup> or ZEROTEM
- Bipolar current output up to 20 A
- 50 or 100% duty cycle
- 1.5 microsecond shutoff into 20 meter loop (NanoTEM<sup>®</sup>)
- Less than 50 microseconds turnoff into 100 meter loop (ZEROTEM)
- Lightweight, battery powered



**Zonge Engineering and Research Organization, Inc.**

*Specialists in Electrical Geophysics*

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# SPECIFICATIONS FOR THE NT-20 TEM TRANSMITTER

## Mechanical Characteristics

Waterproof case with sealed front panel and connectors  
Size: 22 x 28 x 18 cm (8.7 x 11.0 x 7.1 in)  
Weight: 5 kg (11 lb) (without batteries)

## Electrical Characteristics

Input voltage: 10 to 30 VDC  
Peak output current: 20 A  
Transmit control from GDP receiver or XMT-series transmitter controller  
Current monitor outputs:  
0.1 ohm ZEROTEM  
1.0 ohm NanoTEM<sup>®</sup>  
Automatic overcurrent shutdown (set for 25 A)  
MOSFET IGBT power output current switch  
Automatic fault detection

## Controls & Displays

Lamps to indicate state of transmitter:  
power on-off, transmitting, fault, polarity  
Power ON / OFF  
Transmit / Reset  
Current Set  
NanoTEM<sup>®</sup> / ZEROTEM  
Loop Sides:  
5 m  
10 m  
20 m  
50 m  
100 m  
Meter Select  
LCD displays:  
Input voltage  
Output voltage  
Output current  
Turnoff time  
Internal temperature

## Fault Indicators

Over / Under Voltage  
Over Current  
Over Temperature

## Output Jacks

Current monitor terminals (100 mV/A, 1 V/A)  
Output current terminals

## Power

External battery: 10-20 V  
Power connector: four-pin military twist-lock

## Option

Fiber optic control link for 100m or 200m separation between XMT / GDP and transmitter

*Specifications subject to change without notice*  
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