



# ND1250TT/6

Simply the best engineered transmitters

## 1 kW MF TELEGRAPH/NAVTEX TRANSMITTER

### SPECIFICATIONS

#### Frequency Range

405-535 kHz selectable in 100 Hz steps with Direct Digital Synthesis

#### Power Rating

1250 watts carrier in A1A and F1B  
1250 watts PEP in A2A, adjustable down to 200W

#### Channels

Up to 6

#### Carrier Frequency Stability

Better than  $\pm 10$  parts per million of nominal over full environmental range

#### Emission Modes

A1A – carrier keyed ON/OFF  
A2A – carrier and modulation keyed ON/OFF  
F1B – FSK with  $\pm 85$  Hz shift

#### Modulation (A2A)

Nominally 1000 Hz adjustable within  $\pm 5\%$ . Other center frequencies available upon request

#### Envelope Distortion

Less than 3% at full power with 1 kHz 95% modulation

#### Keying Rate

30 baud maximum A1A and A2A modes  
100 baud maximum in F1B mode

#### Keying Bandwidth

Meets requirements of CCIR recommendation 328-3

#### Harmonic Emissions

Better than  $-80$  dB when used in conjunction with companion Antenna Tuning Unit and a standard antenna

#### ON/OFF Keying Radio

Better than  $-120$  dB

#### Hum and Noise

$-60$  dB relative to PEP at full output power

#### RF Load Impedance

50 ohms unbalanced  
Type "N" output connector standard. Other connectors available upon request

#### Load Mismatch

Will accept any value of SWR without damage

#### Controls

Local  
Extended  
Remote Control via an RS232 interface using NAX51 option

#### Environmental Limits

$-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  (storage  $-40^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ )  
0-95% humidity (non condensing)

#### Overall Efficiency

Better than 70% (Typically 73%)  
(AC in to RF out)

#### Cooling and Heat Flushing

Forced air at approximately 90 cu.ft./min., 1280 BTU/hr. max.

#### Power Requirements

198-242V, 50/60, three phase, 3 or 4 wire  
385-465V, 50/60, three phase, 3 or 4 wire  
180-250V, 50/60, single phase  
Other voltages available

#### Power Consumption

1.9 kVA maximum at 0.95 power factor for 3 phase AC supply at full output power  
2178 VA maximum at 0.82 power factor for single phase AC supply at full output power

#### Physical Size

Single phase AC supply  
24" wide x 31" deep x 74.5" high  
(61 x 80 x 189 cm)

#### Weight

450 lbs approximately  
205 kgs approximately

FOR FURTHER DETAILS CONTACT

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