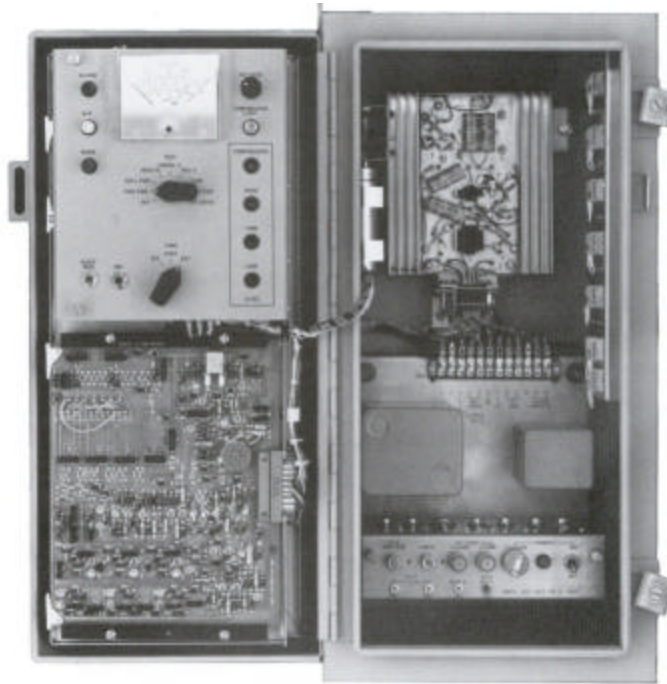




ND 200 S



50 Watt totally solid state non-directional radiobeacon transmitter

Applications

- *Compass Locator
- * H Marker
- * Final Approach Aid
- * Missed Approach Aid
- * Step-down Aid

Design characteristics

1. Available in single or dual configuration
2. 50 ohm coaxial output allowing transmitter and antenna system separation up to 360 ft. typically
3. Extensive metering facilities
4. For use at all types of airports from international to private
5. Suitable for installation and operation by semi-skilled personnel
6. Ideal for remote unattended site operation
7. No external heating required
8. Output protection against open or short circuits
9. Automatic transmitter shut down with remote failure alarm
10. Companion antennas and antenna tuning units all with automatic fine tuning (ordered separately)

NAUTEL'S ND 200 S 50 Watt NDB has been developed for use as a highly reliable, highly efficient transmitter. It may be used either as an aeronautical or non-sequenced marine locator NDB.

The 50 Watt output is fed via a 50 ohm coaxial feeder either directly to a suitable automatically tuned Polestar series antenna or via a separate Automatic Antenna Tuning Unit, Model ATU500, to the customer's existing antenna system.

- * Totally Solid State
- *Equivalent to FAA Type FA9782
- *Meets FCC and ICAO specifications and recommendations
- *Adjustable carrier from 25 watts to 50 watts with 10 to 95% modulation
- *Voice Filter and compression Option

ND 200S

SPECIFICATIONS

Continuous carrier power

50 Watts continuously adjustable down to 25 watts

Frequency range

190 to 535 KHz

Frequency stability

±0.005% or better over full environmental range

Modulation level

Adjustable from 10 to 95%

Emission modes

NON (CW)
A2A (MCW Keyed Tone)

Internal keyed tone frequency

400 or 1020 Hz ±5%

Keying

Solid State programmable keyer, 1, 2 or 3 letters of Morse Code at 7 words/min, 48 or 64 bit code cycle

Harmonic levels

Not exceeding -60dB relative to the carrier into a 50 ohm load

Hum and noise

Not exceeding -46dB relative to 95% modulation level

Audio distortion

Total audio frequency distortion not exceeding 5%

Metering

FWD/REFL Power
% Modulation
Unregulated voltage
Regulated voltage
Tone level
DC Current
RF Drive

Transmitter shutdown threshold

Transmitter shutdown will occur if:
a) Carrier power reduces more than 3dB
b) Modulation or keying fails

Power requirements

120/240V AC Single Phase 50/60
160VA max. Standby power 48V
at 2.5 amps

Environmental limits

-10°C to +70°C 0 to 95% relative humidity (ventilated cabinet)

Climate

Any – including tropical

Dimensions

Height	Width	Depth
61 cm	30.5 cm	30.5 cm
24 in.	12 in.	12 in.

Weight

Unpacked:	41 kg
	90 lbs.
Packed:	44 kg
	98 lbs.

Options

001. Weatherproof cabinet. Revised environmental limits: -10°C to +55°C 0 to 100% relative humidity
002. Automatic changeover to standby transmitter (required for dual ND200 installation)
003. ATU500 (equivalent to FA9782/1) Automatic Antenna Tuning Unit for use with other than Polestar Antennas
004. 48V 3 AMP Lead Acid or NICAD Battery Charger
005. Simultaneous A3E (voice Modulation)



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