



NDB15770

NON DIRECTIONAL RADIO BEACON | FOR MARITIME & AERONAUTICAL SERVICES



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N

Dual 100W radio beacon



Antenna Tuning Unit



Remote control
(optional)



■ NDB TRANSMITTER SYSTEM - FOR MARITIME AND AERONAUTICAL SERVICES

Transmitter & ATU

The 15770 is equipped with either a single transmitter or a dual transmitter with automatic changeover in case of failure, as well as automatic fine tuning to compensate for antenna variations.

The 005165 Antenna Tuning Unit is a compact outdoor/indoor construction connecting to either a helipad antenna, a self-supporting mast antenna or a T- or L-wire antenna.

Double purposes

The Radio Beacon Transmitter System can be used for either aeronautical purposes, as a homing device, or for maritime purposes, as a DGPS transmitter.

As an optional feature the system can be equipped with a remote control.

Proven Quality

The Radio Beacon from Amplidan is fully compliant with ICAO regulations.

It ensures you with the proven quality you can expect from a company with more than 40 years of history in delivering NDB Systems for aeronautical and maritime purposes all over the world.

DB15770

TECHNICAL SPECIFICATIONS FOR NDB 15770

TRANSMITTER

Standard output:	50, 100 & 200 Watt
Standard Frequency range	265-525 kHz
Frequency stability	+/- 20 ppm
Modulation frequency range	390-1200 Hz
Modulation stability	< 3 %
Modulation depth	0-90%
Type of emission	A1A, A2A, H2A (A3E on request)
Power amplifier design	Linear

Signal distortion from transmitter

Load = 50 Ω 's, Max output power,

Supply voltage = 26V, Modulation = 85 %

Carrier harmonic level	< 43 dB
Modulator harmonic distortion	< 5%
Hum and noise relative to carrier	< 70 dB
Level of intermod. products relative carrier level for A2A emissions	< 30 dB

Radiation

Level of frame radiation	< 1 mW
Spurious from cables connected to equipment	< 1 mW

Power supply

AC voltage supply range	100-260 volt AC (Optional)
DC voltage supply range	22-34 volt DC
Min. DC supply voltage	26 volt DC (Max. Output Power)
Power consumption (type 015771)	< 380 Watt (Output Power = 100W Mod. = 80%)

Efficiency (at 300 KHz)

Overall efficiency, inclusive ATU	13% Vsupply = 26 volt DC Modulation = 85 % Antenna capacity = 250 pF
Earth Loss, inclusive ATU	Antenna impedance = 10 Ω Antenna capacitance = 750 pF

SYNTHESIZER MODULE, TYPE 024030

Power Supply:	18-32 VDC, 250mA
Modulation type:	A1A, A2A, H2A, A3E (on request)
RF frequency / division:	190-650 kHz / 0.1 kHz
AM frequency / division:	100-1500 Hz / 100 Hz
Frequency stability:	20ppm
Modulation Depth (A2A):	85% typ. (85-90%)
External RF inputs:	0 dBm (224 mVrms/50 Ω)
RF Output:	8 dBm (566 mVrms/50 Ω)
RF Output Adjustment	-5 - +10 dBm (125-740 mVrms/50 Ω)
RF input/output impedances	50 ohm
External LF input:	0 dBm (775 mVrms)
LF input impedance	10 kohm
Keying signal input	0/24 VDC (24V = Mark / 0V = Space)
LF source selecting input	0/24 VDC (24V = External / 0V = Internal)
Frequency and mode settings	DIP switches

ANTENNA TUNING UNIT (ATU)

Outdoor / indoor construction	Type 005165
Frequency range	265-625 KHz
Input impedance	50 ohm
Aerial matching, capacitance	250-3000pF
Aerial matching, resistive (std)	3-22 ohm
Aerial matching, resistive (alt.)	18-36 ohm
Power supply input voltage range	20-30 volt DC

Proven Reliability

A world leader in marine and off-shore sound solutions, Amplidan A/S develops, markets, and supplies systems and equipment for communication and security worldwide.

With installations in passenger, commercial and navy vessels around the globe, our solutions have proven reliable in every environment, on every kind of ship and off-shore installation.

As one of the few marine and off-shore solution providers in the world, our systems meet all IMO requirements as well as individual national requirements, giving our customers increased safety in every sense.

Your complete internal communication source

- Public Address systems
- Talk-Back systems
- Fog Bell & Gong systems
- Alarm Call systems
- Radio Beacons (NDB)
- Automatic telephone systems
- Self Powered Telephone systems
- Communal Aerial systems
- Satellite TV systems



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