

NORMARC 7000B

Instrument Landing System



0 to 20 seconds

NORMARC 7000 ILS systems are available in a wide range of configurations all meeting the most stringent ICAO Level 4 requirements and designed to be cost-effective, easy to install and operate, and above all, dependable.

Additional near- field time delay

NORMARC 7000 INSTRUMENT LANDING SYSTEM (ILS)	LOCALIZER	GLIDE PATH	
SYSTEM			
Overage – course	25NM/±10°	10NM/±8° azimuth	
– clearance	17NM/±35°		
ourse width	2° to 6° adjustable	± 0.24 x glide path angle	
ilide path angle	- 2° to 4° adjustable		
Course stability	< ± 1m (typical)	< ± 0.04°	
ransmitter			
requency range	108 to 112 MHz	328.6 to 335.4 MHz	
requency tolerance	± 0.0004%	± 0.0004%	
Output power CSB (Course and Clearance)	5 - 25W adjustable (Course/Clearance)	3 - 8W adjustable (Course)	
		0.3 - 1W adjustable (Clearance)	
1odulation depth 90/150 Hz nominal	20%	40%	
Adjustable range (each tone)		10-25% 10-44%	
requency tolerance (90/150 Hz)	± 0.01%	± 0.01%	
otal harmonic distortion (90/150 Hz)	1% maximum	1% maximum	
Phase locking (90 Hz to 150 Hz)	5° maximum ref 150 Hz	5° maximum ref 150 Hz	
SB/SBO adjustment range	360° 360°		
DENTITY KEYER			
1odulation Frequency	1020 Hz ± 0.5 Hz		
1odulation depth	5 - 15% adjustable		
Built- in interface for DME co-location, ILS can be ident master or slave			
MONITORING			
Narm parameter (selectable)	Integral course line Integral displacement sensitivity Integral displacement sensitivity Near- field course line Integral clearance (two frequency only) Identity Integral clearance (two frequency only) Integral clearance (two frequency only)		

0 to 20 seconds

NORMARC 7000B

Instrument Landing System

NORMARC 7000 INSTRUMENT LANDING SYSTEM (ILS)

REMOTE MAINTENANCE MONITORING

3 x RS232 interface for connection to modem/PC Event log, alarm log, self diagnostic, historical data, fully electronically controlled TX and all functions needed during flight check from one window

MARKER BEACON

According to ICAO Annex 10 paragraphs 3.1.7 and 3.6

REMOTE CONTROL		
Data transmission medium	2-wire line, 600 ohm, FSK or RS232	
ENVIRONMENTAL CHARACTERISTICS		
Operational temperature		
Indoor	- 10 to + 55°C	
Outdoor	- 40 to + 70°C	
Storage temperature	- 30 to + 60°C	
Wind	Up to 200 km/h	
Ice	50 mm maximum	
Non-destructive hall size	Up to 15 mm (diameter)	

LOCALIZER ANTENNA SYSTEMS							
	NORMARC 3523B	NORMARC 7212	NORMARC 3525	NORMARC 7216	NORMARC 7220		
	Single-frequency	Two-frequency	Two-frequency	Two-frequency	Two-frequency		
Number of elements	12	12	24	16	20		
Width of Array	37m	26m	48m	38m	52m		
Beam-width CSB (-3 dB)	±3.8°	±3.6°	±2.0°	±2.5°	±2.0°		

GLIDE PATH ANTENNA SYSTEMS	
Antenna System	Sideband Ref., M-array, O-Ref.
Frequency band	328 - 336 MHz
Glide path angle	2.0° to 4.0°
Antenna element	Stacked dipoles with reflector
Gain	12.5 dBi
Beamwidth	Horizontal +/- 12.5°
Front-to-back ratio	Min. 17 dB
Antenna mast	Self-supporting steel construction
Height	7 - 18m



