



United
Instrument Manufacturing
Corporation

ILS SP-2010

INSTRUMENTAL LANDING SYSTEM



The instrumental landing system SP-2010 (two-channel, two-frequency, ICAO Category I, II, III) is intended for ensuring of instrumental aircraft landing.



MAIN FEATURES:

- two sets of equipment, power supply and accumulators in a single cabinet;
- programmable digital shaping of modulated signals;
- keyboard data input;
- continuous tolerance check of radiated signals;
- built-in test control;
- remote control and setting of main parameters through telephone line by modem from PC located in any point of the world;
- additional meteorological and ornithological protection of localizer antennas;
- option of integration with the control system of navigational and landing complex ILS SP-2010 / MB RMM-200 / VOR RMA-2010 / DME RMD-2010 / NDB RMP-200 is available.

COMPONENT PARTS:

- localizer (LLZ);
- glide-path beacon (GP);
- remote control unit (RCU).

Two or three marker beacons or DME can be included in the system.





SPECIFICATIONS OF SP-2010

Localizer (LLZ)

LPDA antenna system, elements in array:	17
Polarization	horizontal
Coverage zone, not less	46 km in zone $\pm 35^\circ$
Frequency range	108 - 112 MHz
Frequency stability	$\pm 0.002 \%$
Number of channels	40

Glide-path radio beacon (GP)

Antenna system	"M"-type
Polarization	horizontal
Coverage zone, not less	18 km in zone $\pm 8^\circ$
Frequency range	329 - 335 MHz
Frequency stability	$\pm 0.002 \%$
Number of channels	40

Tolerance Check

Check of Parameters - as per ICAO requirements
Emergency switch over logical "AND" (two checking units)

Operating Conditions

Outside shelter	
Temperature	- 50 to + 50 °C
Wind Load	up to 50 m/s
Inside shelter	
Temperature	- 10 to + 50 °C
Relative humidity	up to 98% at +25°C

Power Supply

Circuit, one phase	187-264V, 47-63Hz
Consumed power, not more	
main equipment of LLZ (GP)	250 VA
LLZ (GP) (with temperature control system is on)	4 kVA
Emergency power supply with accumulator battery, not less	2 hours

Reliability

MTBF	35 000 hrs
Service life	15 years

* specifications are subjected to change without prior notice

