



United  
Instrument Manufacturing  
Corporation

# VOR RMA-2010/ DME RMD-2010

SHORT RANGE NAVIGATION SYSTEM



VHF omni-directional range (VOR) RMA-2010 and distance measuring equipment (DME) RMD-2010 are designed for continuous indication of azimuth and range of an aircraft relatively radio beacon location.



## MAIN FEATURES:

- specifications meet ICAO requirements, exceed by azimuth and distance precision;
- state-of-the-art engineering desing; two sets of equipment, power supply and accumulators in a single cabinet; 100% backup on main equipment;
- 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;
- option of integration with the control system of navigational and landing complex ILS SP-2010 / MRK RMM-200 / VOR RMA-2010 / DME RMD-2010 / NDB RMP-200 / DME/P RMD-P-2010 is available;
- the highest reliability due to modern components and technical solutions.

## COMPONENT PARTS:

- operating room with RMA-2010, RMD-2010 cabinets;
- transmitting VOR antenna with shield;
- DME antenna;
- two test antennas;
- remote control cabinet;
- programmable command complex.





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## SPECIFICATIONS OF RMA-2010 / RMD-2010

	RMA-2010	RMD-2010
Format of signal:	VOR	DME
Coverage zone		0 - 360° 0 - 40°
Range at the altitude 12 km, at least	320 km	360 km
Polarization	horizontal	vertical
Frequency range , MHz	108-118	960-1215
Number of channels	200	252
Traffic capacity, at least		200 aircraft

### Tolerance Check

Check of Parameters - as per ICAO requirements

### 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
Circuit, three phase	380+/-10%V, 50+/-10%Hz
Consumed power, not more	
main equipment	900 VA
with temperature control system is on	4 kVA
Emergency power supply with accumulator battery, not less	2 hrs

### Reliability

MTBF	35 000 hrs
Service life	15 years

\* specifications are subjected to change without prior notice



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