

DUESSELDORF
RWY 23L

STANDARD INSTRUMENT DEPARTURE
ROUTES (SID)

Pilots of GPS/FMS-RNAV-equipped aircraft shall, if possible, use the supplementary GPS/FMS RNAV procedures which are described following the text "GPS / FMS RNAV:" and charted in addition on "CHART – INSTRUMENT (OVERLAY)". When using these supplementary GPS/FMS RNAV procedures, the pilot shall check and ensure that the underlying conventional flight procedures are adhered to by monitoring the information of the ground-based navigation aids. The ground-based navigation aids required for the use of the respective conventional flight procedure and the associated aircraft equipment shall remain in operation at all times.

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MODRU 2T	MODRU TWO TANGO On track 230° DY to 3.4 DME DUS (3.6 DME IDNE); RT, on track 318° to UBORO(Δ); LT, via NETEX(Δ) on track 197° to MODRU(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL243[K210-; R] - UBORO[L] - NETEX[K250-] - MODRU[F210+].	5000 ft	Langen Radar 121.355	<ol style="list-style-type: none"> 1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights with RFL 210 and above. Flights shall cross MODRU at FL 210 or above. If unable to comply, advise Clearance Delivery upon start-up request. 3. After passing 3.4 DME DUS/3.6 DME IDNE BRNAV equipment necessary. 4. MAX IAS 210 KT until established on track 318°. 5. MAX IAS 250 KT until established on track 197°.
NETEX 1K	NETEX ONE KILO On track 230° DY to 3.4 DME DUS (3.6 DME IDNE); RT, on track 318° to UBORO(Δ); LT direct NETEX(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL243[K210-; R] - UBORO[L] - NETEX[K250-].			<ol style="list-style-type: none"> 1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights with further routing DCT RASCA or DCT DELOM. In case of radio com failure proceed with DCT. 3. After passing 3.4 DME DUS/3.6 DME IDNE BRNAV equipment necessary. 4. MAX IAS 210 KT until established on track 318°. 5. MAX IAS 250 KT until passing NETEX.
NETEX 6T	NETEX SIX TANGO On runway track to 1.0 DME DUS (1.2 DME IDNE) or 600 ft, whichever is later; RT, on track 295° LMA to 13.4 DME DUS (13.3 DME IDNE); LT, on track 238° LMA to NETEX(Δ). Climb with 7% (425ft/NM) or more until passing 3000 GPS/FMS RNAV: DL236[A600+; R] - LMA[L] - NETEX.			<ol style="list-style-type: none"> 1. PDG due to airspace structure. If unable to comply advise Delivery on start-up request. 2. For flights with RFL from 100 to 200 or flights via Z282 DIBIR L179 (if available). 3. Not available for flights with further routing via NETEX DCT RASCA or NETEX DCT DELOM.
KUMIK 7T	KUMIK SEVEN TANGO On track 230° DY to 4.5 DME DUS (4.7 DME IDNE); LT, on heading 171° until crossing R268 GMH (21.5 DME NVO); LT, on track 083° to ELBAL(Δ); on track 084° to DEGOM(Δ); RT, on track 139° to KUMIK(Δ). Climb with 8.3% (505ft/NM) or more until passing 3000. Pass 4.5 DME DUS (4.7 DME IDNE) at or above 2300. Cross DEGOM at FL150 or above. GPS/FMS RNAV: [A600+] - DL239[A3000+; L] - DL241[L] - ELBAL - DEGOM[F150+; R] - KUMIK.			<ol style="list-style-type: none"> 1. PDG due to traffic at EDLN. If unable to comply, advise Delivery on start-up request. 2. After crossing R268 GMH (21.5 DME NVO) BRNAV equipment necessary. 3. Only for flights with RFL 150 or above. 4. Normally not available for flights above FL250 via BOMBI, except Prop/Turbo Prop type aircraft. Flights unable to cross DEGOM at FL 150 or above shall advise clearance Delivery upon start-up request.
COL 6T	COLA SIX TANGO On track 230° DY to 4.5 DME DUS/4.7 DME IDNE; LT, on heading 171° until crossing R268 GMH (21.5 DME NVO); LT, on R263 GMH to 32.0 DME GMH (crossing R201 BAM); RT, on track 101° to intercept and follow R325 COL to COL(Δ). Climb with 8.3% (505ft/NM) or more until passing 3000. Pass 4.5 DME DUS (4.7 DME IDNE) at or above 2300. Intercept R325 COL (LIPMI) at FL150 or above. GPS/FMS RNAV: [A600+] - DL239[A3000+; L] - DL241[L] - DL244[R] - LIPMI[F150+; R] - COL.			<ol style="list-style-type: none"> 1. PDG due to traffic at EDLN. If unable to comply, advise Delivery on start-up request. 2. Flights unable to cross LIPMI at FL 150 or above shall advise clearance Delivery upon start-up request.

(Sample: UBORO fly-over way point)

Remain on TWR-Frequency until passing altitude 2000 ft, then contact Langen Radar.