

MOENCHENGLADBACH
RWY 31

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(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
ROMIN 9N	ROMIN NINE NOVEMBER Climb straight ahead to 8.6 DME MHD (crossing 227° LMA); LT, on track 011° LMA to LMA (Δ); RT, on track 241° LMA to ROMIN (▲). GPS/FMS RNAV: [A600+] - LN310[L] - ROMIN.	2000 ft	Langen Radar 128.555 121.355	Langen Radar Frequency will be assigned by Moenchengladbach TWR.
SONEB 3N	SONEB THREE NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); RT, on track 011° LMA to LMA (Δ); RT, on track 016° LMA to ABODU (Δ); RT, on track 019° via LN140 to SONEB (Δ). Cross LN140 at FL140 or above. GPS/FMS RNAV: [A600+] - LN311[R] - LMA[R] - ABODU[R] - LN140[F140+] - SONEB.			1. After ABODU BRNAV equipment necessary. 2. Only for flights with RFL140 or above via RKN/TENLI. Other flights proceed via ABODU on L179 to MEVEL. Flights must be able to cross LN140 at FL140 or above. If unable advise clearance Delivery upon start-up request. Langen Radar Frequency will be assigned by Moenchengladbach TWR.
ABODU 2N	ABODU TWO NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); RT, on track 011° LMA to LMA (Δ); RT, on track 016° LMA to ABODU (Δ). GPS/FMS RNAV: [A600+] - LN311[R] - LMA[R] - ABODU.			Langen Radar Frequency will be assigned by Moenchengladbach TWR.
NVO 1N	NOERVENICH ONE NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); LT, on heading 208° until crossing R334 NVO (crossing R283 MHV); LT on R331 NVO to NVO (Δ). GPS/FMS RNAV: [A600+] - LN313[L] - LN317 - LN318[L] - NVO.			Langen Radar Frequency will be assigned by Moenchengladbach TWR.
GMH 2N	GERMINGHAUSEN TWO NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); LT, on heading 208° until crossing R334 NVO (crossing R283 MHV); LT on R331 NVO to 21.5 DME NVO (crossing R216 MHV); LT, on heading 085° to intercept and follow R265 GMH to GMH (Δ). GPS/FMS RNAV: [A600+] - LN313[L] - LN317 - LN318[L] - LN319[L] - GMH.			Only for flights with RFL 140 or below. Langen Radar Frequency will be assigned by Moenchengladbach TWR.
MODRU 8N	MODRU EIGHT NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); LT, on track 208° LMA to MODRU (Δ). GPS/FMS RNAV: [A600+] - LN313[L], - LN317 - MODRU.			Langen Radar Frequency will be assigned by Moenchengladbach TWR.
NUDGO 5N	NUDGO FIVE NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); LT, on heading 208° until crossing R334 NVO (crossing R283 MHV); LT on R331 NVO to 21.5 DME NVO (crossing R216 MHV); LT, on heading 085° to intercept and follow R265 GMH to 18.6 DME GMH (crossing R341 COL); LT, on track 067° via MAMIB (Δ) to KULIX (Δ); LT, on track 061° to NUDGO (Δ). GPS/FMS RNAV: [A600+] - LN313[L] - LN317 - LN318[L] - LN319[L] - ELBAL[L] - MAMIB - KULIX[L] - NUDGO.			1. Not available for flights into upper airspace. 2. After 18.6 DME GMH (crossing R341 COL) BRNAV equipment necessary. Langen Radar Frequency will be assigned by Moenchengladbach TWR.
KUMIK 4N	KUMIK FOUR NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); LT, on heading 208° until crossing R334 NVO (crossing R283 MHV); LT on R331 NVO to 21.5 DME NVO (crossing R216 MHV); LT, on heading 085° to intercept and follow R265 GMH to 10.0 DME GMH (crossing R002 COL); RT, on track 141° to KUMIK(Δ). Cross 10.0 DME GMH at FL150 or above. GPS/FMS RNAV: [A600+] - LN313[L] - LN317 - LN318[L] - LN319[L] - DEGOM[F150+; R] - KUMIK.			1. After 10.0 DME GMH (crossing R002 COL) BRNAV equipment necessary. 2. Only for flights with RFL 150 or above. 3. Flights unable to cross DEGOM at FL 150 or above shall advise clearance Delivery upon start-up request. Langen Radar Frequency will be assigned by Moenchengladbach TWR.
COL 4N	COLA FOUR NOVEMBER Climb straight ahead to 5.2 DME MHD (crossing 183° LMA); LT, on heading 208° until crossing R334 NVO (crossing R283 MHV); LT on R331 NVO to 21.5 DME NVO (crossing R216 MHV); LT, on heading 085° to intercept and follow R265 GMH to 31.0 DME GMH (crossing R317 COL); RT, on heading 102° to intercept and follow R327 COL to COL (Δ). Intercept R327 COL (LIPMI) at FL150 or above. GPS/FMS RNAV: [A600+] - LN313[L] - LN317 - LN318[L] - LN319[L] - LN316[R] - LIPMI[F150+; R] - COL.			Flights unable to cross LIPMI at FL 150 or above shall advise clearance Delivery upon start-up request. Langen Radar Frequency will be assigned by Moenchengladbach TWR.

(Sample: LN313 fly-over way point)

Contact Langen Radar immediately after take-off!