

Type of aid MAG VAR Type of supported OPS VOR/ILS/MLS declination	ID	Frequency/ Channel service provider RPI	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Service volume radius GBAS	Remarks
1	2	3	4	5	6	7	8
Mannheim City LOC 27 (CAT NOCAT) LOC (2° E/2020)	IMAW	108.55 MHz	H24	N 49 28 23.56 E 008 30 17.62		-	Usable: Up to 10 NM in the area 035°(L)/035°(R) in relation to RCL MIN interception altitude: 3500 ft MSL. From 10 NM to 18 NM in the area 010°(L)/ 010°(R) in relation to RCL MIN interception altitude: 3500 ft MSL. LOC Location: 91 m W THR 09 and 20 m N of RCL; LOC course (offset 0.4°) crosses the RCL 0.8 NM in front of THR 27.
Neckar NDB	NKR	292.00 KHz	H24	N 49 20 12.22 E 008 43 58.47		-	Operational range sector 0°–360°: 25 NM
Ried DVOR/DME (2° E/2012)	RID	112.20 MHz CH59x	H24	N 49 46 54.09 E 008 32 29.35	337	-	Operational coverage sector 045°–225°: 60 NM, FL 250 sector 225°–045°: 40 NM, FL 250 The DVOR may only be used for the radials in the published en-route, approach and departure procedures and is not permitted for area navigation. DME unusable in sector 0°–360°: below 0 – 10 NM 1400 ft MSL 10 – 20 NM 3300 ft MSL 20 – 30 NM 4100 ft MSL 30 – 40 NM 5600 ft MSL DME unusable in sector 045°–225°: below 40 – 50 NM 7200 ft MSL 50 – 60 NM 9000 ft MSL
Zweibruecken DVOR/DME (1° E/2012)	ZWN	114.80 MHz CH95x	H24	N 49 13 44.66 E 007 25 04.41	1164	-	Operational coverage sector 0°–360°: 60 NM, FL 500 DVOR/DME unusable in sector 0°–360°: below 0 – 10 NM 2200 ft MSL 10 – 20 NM 3500 ft MSL 20 – 30 NM 4900 ft MSL 30 – 40 NM 6400 ft MSL 40 – 50 NM 8100 ft MSL 50 – 60 NM 9900 ft MSL The DVOR may only be used for the radials in the published en-route, approach and departure procedures and is not permitted for area navigation.