

EDLW AD 2.19 Radio navigation and landing aids

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
Barmen DVOR/DME (2° E/2023)	BAM	114.00 MHz CH87x	H24	N 51 19 39.93 E 007 10 37.14	865	-	Operational coverage sector 292°–338°: 60 NM, 50000 ft MSL sector 338°–292°: 40 NM, 50000 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. DME unusable in sector 050°–170°: below <hr/> 0 – 10 NM 3200 ft MSL 10 – 20 NM 5700 ft MSL 20 – 30 NM 8300 ft MSL 30 – 40 NM 11000 ft MSL DME unusable in sector 170°–050°: below <hr/> 0 – 10 NM 2300 ft MSL 10 – 20 NM 3200 ft MSL 20 – 30 NM 4600 ft MSL 30 – 40 NM 6100 ft MSL
Bottrop NDB	BOT	406.50 KHz	H24	N 51 35 08.89 E 007 01 22.84		-	Operational range sector 0°–360°: 30 NM NDB unusable: in sector from station <hr/> 0°–360° 20 NM 040°–042° 14 NM 042°–040° 20 NM
Dortmund-Wickede ILS 06 (CAT II) LOC (2° E/2023)	IDWE	109.15 MHz	H24	N 51 31 29.60 E 007 37 51.19		-	Usable: Up to 7.4 NM in the area 035°(L)/035°(R) in relation to RCL MIN interception altitude: 1350 ft MSL. From 7.4 NM to 17 NM in the area 035°(L)/ 035°(R) in relation to RCL MIN interception altitude: 2400 ft MSL. From 17 NM to 25 NM in the area 010°(L)/ 010°(R) in relation to RCL MIN interception altitude: 2400 ft MSL.
GP	-	331.25 MHz	H24	N 51 31 06.85 E 007 36 33.85		-	
OM	dashes	75.00 MHz	H24	N 51 28 57.68 E 007 30 33.12		-	4.13 NM THR 06
MM	dot- dash	75.00 MHz	H24	N 51 30 40.92 E 007 35 32.89		-	0.57 NM THR 06
Dortmund-Wickede ILS 24 (CAT II) LOC (2° E/2023)	IDWW	111.30 MHz	H24	N 51 30 47.97 E 007 35 52.86		-	Usable: Up to 9 NM in the area 033°(L)/035°(R) in relation to RCL MIN interception altitude: 1570 ft MSL. From 9 NM to 17 NM in the area 033°(L)/ 035°(R) in relation to RCL MIN interception altitude: 2400 ft MSL. From 17 NM to 25 NM in the area 010°(L)/ 010°(R) in relation to RCL MIN interception altitude: 2400 ft MSL.
GP	-	332.30 MHz	H24	N 51 31 18.26 E 007 37 05.93		-	
DME	IDWW	CH50x (111.30 MHz *)	H24	N 51 31 18.22 E 007 37 05.92	397	-	Operational coverage sector 025°–095°: 25 NM, 10000 ft MSL DME IDWW usable only for arrival and departure procedures. * Ghost frequency