

# Aero Standard Calibration

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## DB/DIFFERENCE IN DEPTH OF MODULATION (DDM) TABLES

Different but equivalent terminology is used between generations of test equipment used for testing ILS receivers. The table below provides necessary information for conversion between DDM factors commonly used and ratio of audio tones expressed in dB. Additionally, equivalent percent amplitude modulation levels and nominal receiver microamp levels are provided.

ILS Tone Ratio/DDM Conversion Chart

TONE	LOCALIZER (LOC)			GLIDESLOPE (GS)		
Ratio (dB)	*DDM	% Mod (Larger/Smaller)	RCVR Deflection (uA)	*DDM	% Mod (Larger/Smaller)	RCVR Deflection (uA)
0.0	0.000	20.00/20.00	0	0.000	40.00/40.00	0
0.5	0.012	20.58/19.42	12	0.023	41.15/38.85	20
0.98	0.023	21.13/18.87	22	0.045	42.25/37.75	39
1.98	0.0456	22.28/17.72	44	0.091	44.55/35.45	78
2.00	0.0458	22.29/17.71	44	0.092	44.59/35.41	79
2.01	0.046	22.30/17.70	45	0.092	44.60/35.40	79
3.86	0.087	24.37/15.63	84	0.175	48.75/31.25	150
4.00	0.091	24.53/15.47	88	0.181	49.05/30.95	155
4.11	0.093	24.65/15.35	90	0.186	49.30/30.70	159
7.10	0.155	27.75/12.25	150	0.310	55.50/24.50	266
7.50	0.163	28.14/11.86	158	0.325	56.27/23.73	279
9.54	0.200	30.00/10.00	194	0.400	60.00/20.00	343
∞	0.400	40.00/00.00	387	0.800	80.00/00.00	686

\*DDM (Difference in Depth of Modulation) - the larger percent (%) of modulation less the smaller percent (%) of modulation divided by 100.

NOTE: 150 Hz Tone Predominant: Localizer is left, glideslope is up; 90 Hz Tone Predominant: Localizer is right, glideslope is down.