

AMERICAN		JAPANESE	TRANSCEIVER
Sig Gen in 'uV'	Sig Gen in 'dBm'	Sig Gen in 'dB'	S-METER Signal Strength
0.100uV	-127dBm	-12dB	S0
0.200uV	-121dBm	-6dB	S1
0.399uV	-115dBm	0dB	S2
0.795uV	-109dBm	6dB	S3
1.59uV	-103dBm	12dB	S4
3.17uV	-97dBm	18dB	S5
6.33uV	-91dBm	24dB	S6
12.6uV	-85dBm	30dB	S7
25.2uV	-79dBm	36dB	S8
50.1uV	-73dBm	40dB	S9
159uV	-63dBm	50dB	S9 + 10dB
501uV	-53dBm	60dB	S9 + 20dB
1590uV	-43dBm	70dB	S9 + 30dB
5010uV	-33dBm	80dB	S9 + 40dB
15900uV	-23dBm	90dB	S9 + 50dB
50100uV	-13dBm	100dB	S9 + 60dB
159000uV	-3dBm	110dB	S9 + 70dB

IARU Region 1 Technical Recommendation R.1

In 1981 the International Amateur Radio Union (IARU) Region 1, agreed on a technical recommendation for S-Meter calibration for MF / HF and VHF / UHF transceivers.

1. One S-unit corresponds to a signal level difference of 6 dB.
2. On the bands below 30 MHz a meter deviation of S-9 corresponds to an available power of -73 dBm from a continuous wave signal generator connected to the receiver input terminals.
3. On the bands above 144 MHz this available power shall be -93 dBm.
4. The metering system shall be based on quasi-peak detection with an attack time of 10 msec \pm 2 msec and a decay time constant of at least 500 msec.