

Recommendation ITU-R SM.1135-0
(10/1995)

SINPO and SINPFEMO codes

SM Series
Spectrum management



Foreword

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The regulatory and policy functions of the Radiocommunication Sector are performed by World and Regional Radiocommunication Conferences and Radiocommunication Assemblies supported by Study Groups.

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Series of ITU-R Recommendations					
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SA	Space applications and meteorology				
SF	Frequency sharing and coordination between fixed-satellite and fixed service systems				
SM	Spectrum management				
SNG	Satellite news gathering				
TF	Time signals and frequency standards emissions				
\mathbf{V}	Vocabulary and related subjects				

Note: This ITU-R Recommendation was approved in English under the procedure detailed in Resolution ITU-R 1.

Electronic Publication Geneva, 2011

RECOMMENDATION ITU-R SM.1135-0*

SINPO and SINPFEMO codes

(1995)

Scope

This Recommendation provides classification of reception quality according to SINPO and SINPFEMO coding.

Keywords

Reception quality, SINPO, SINPFEMO

The ITU Radiocommunication Assembly,

considering

- a) that it would be advisable for all administrations to use the same signal reporting codes, and that the number of officially recognized codes must consequently be as restricted as possible;
- b) that the abbreviations in the Q code are in general inadequate for obtaining a clear idea of the quality of a transmission;
- c) that the SINPO code has been used for years by some administrations;
- d) that the SINPO code gives a more accurate description of the transmission quality and is easy to use;
- e) that the SINPFEMO code is derived from the SINPO code by adding three letters relating to special features of telephone transmissions and is easy to use;
- f) that the information which is not included in the SINPO or SINPFEMO code may be transmitted satisfactorily by service message,

recommends

1 that the SINPO and SINPFEMO codes given in Annex 1 shall be used by administrations.

ANNEX 1

SINPO and SINPFEMO codes

SINPO signal reporting code

	S	I	N	Р	0
Rating scale	Signal strength		Overall		
		Interference	Noise	Propagation disturbance	rating
5	Excellent	Nil	Nil	Nil	Excellent
4	Good	Slight	Slight	Slight	Good
3	Fair	Moderate	Moderate	Moderate	Fair
2	Poor	Severe	Severe	Severe	Poor
1	Barely audible	Extreme	Extreme	Extreme	Unusable

^{*} Radiocommunication Study Group 1 made editorial amendments to this Recommendation in the years 2011 and 2019 in accordance with Resolution ITU-R 1.

SINPFEMO signal reporting code

	S	I	N	P	F	Е	M	О
Rating scale	Signal strength	Degrading effect of		Frequency	Modulation		Overall	
		Interference	Noise	Propagation disturbance	of fading	Quality	Depth	rating
5	Excellent	Nil	Nil	Nil	Nil	Excellent	Maximum	Excellent
4	Good	Slight	Slight	Slight	Slow	Good	Good	Good
3	Fair	Moderate	Moderate	Moderate	Moderate	Fair	Fair	Fair
2	Poor	Severe	Severe	Severe	Fast	Poor	Poor or Nil	Poor
1	Barely audible	Extreme	Extreme	Extreme	Very fast	Very poor	Continuously over- modulated	Unusable

Special remarks:

- a) A signal report shall consist of the code word SINPO or SINPFEMO followed by a group of five or eight numerals, rating, respectively, the five or eight characteristics of the particular signal code.
- b) The letter X shall be used instead of a numeral for characteristics not rated.
- c) Although the code word SINPFEMO is intended for radiotelephony, it may be used for radiotelegraphy.
- d) The overall rating for radiotelegraphy shall be as indicated in Tables 1 and 2.

TABLE 1

Overall rating	Mechanized Operations	
5. Excellent	4-channel time-division multiplex	
4. Good	2-channel time-division multiplex	
3. Fair	Marginal single start-stop printer	
2. Poor	BKs, XQs and call signs readable	
1. Unusable	Unreadable	

TABLE 2

Overall rating	Morse Operation	
5. Excellent	High speed	
4. Good	100 wpm	
3. Fair	50 wpm	
2. Poor	BKs, XQs and call signs readable	
1. Unusable	Unreadable	

e) The overall rating for telephony shall be as indicated in Table 3.

TABLE 3

Overall rating	Operating Condition	Quality
5. Excellent 4. Good	Signal quality unaffected Signal quality slightly affected	Commercial
3. Fair	Signal quality seriously affected; channel usable by operators or by experienced subscribers	Marginally commercial
2. Poor 1. Unusable	Channel just usable by operators Channel unusable by operators	Not commercial