

RECOMMENDATION ITU-R V.430-3*

Use of the international system of units (SI)

(1953-1963-1978-1982-1990)

Scope

This text recommends the use of the international system of units (SI), together with the symbols for their representation. It also recommends that other units and symbols in the field of telecommunication should follow similar rules.

The ITU Radiocommunication Assembly,

recommends

1 that the various ITU organs, as well as administrations and recognized private operating agencies should use in their mutual relations:

- the units of the international system of units (SI) adopted by the General Conference of Weights and Measures (CGPM) and supported by the International Organization for Standardization (ISO); this system is based on the rationalized form of electromagnetic and electrotechnical relations;
- the symbols adopted in the SI system to represent units;
- rules similar to those of the SI system when it is necessary to form names of other units and their symbols in the field of telecommunications as in Recommendation ITU-R V.607;

2 that, with the exception of unit symbols frequently used in telecommunications, the first time a symbol is used in a particular text, its full meaning should be given either in the body of the text or in a footnote.

NOTE 1 – References of relevant publications (updated in 2000).

International Bureau of Weights and Measures (BIPM) publication: “Le système international d'unités (SI)/The International System of Units (SI)” (7th ed. 1998)

International Standard ISO 31: “Quantities and units” (1992)

Parts of International Standard ISO 31 of greatest interest for telecommunications:

- 31-0 (General principles)
- 31-1 (Space and time)
- 31-2 (Periodic and related phenomena)
- 31-5 (Electricity and magnetism)
- 31-6 (Light and related electromagnetic radiations)
- 31-7 (Acoustics)
- 31-11 (Mathematical signs and symbols for use in physical sciences and technology)

* This Recommendation was updated in 2003 and 2005 for editorial reasons only.

International Standard ISO 1000: “SI units and recommendations for the use of their multiples and of certain other units” (1992)

International Standard IEC 60027

See ISO Standards Handbook “Quantities and units” (1993).
