
Changes to legislation: There are currently no known outstanding effects for the Weights and Measures Act 1985, Part VII. (See end of Document for details)

SCHEDULES

SCHEDULE 1

DEFINITIONS OF UNITS OF MEASUREMENT

PART VII

MEASUREMENT OF ELECTRICITY

1. (a) AMPERE
- [^{F1}for which the symbol “A” is used, is the SI unit of electric current, defined by taking the fixed numerical value of the elementary charge e to be 1.602 176 634 $\times 10^{-19}$ when expressed in the unit C, which is equal to A s, where the second is defined by taking the fixed numerical value of the caesium frequency $\Delta\nu_{\text{Cs}}$, the unperturbed ground-state hyperfine transition frequency of the caesium 133 atom, to be 9 192 631 770 when expressed in the unit Hz, which is equal to s^{-1} .]
- (b) OHM
- is the electric resistance between two points of a conductor when a constant potential difference of 1 volt, applied between the two points, produces in the conductor a current of 1 ampere, the conductor not being the seat of any electromotive force.
- (c) VOLT
- is the difference of electric potential between two points of a conducting wire carrying a constant current of 1 ampere when the power

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		dissipated between these points is equal to 1 watt.
	(d) WATT	is the power which in one second gives rise to energy of 1 joule [^{F2} , where the second has the meaning given in the definition of “AMPERE”].
2.	Kilowatt	= 1000 watts.
	Megawatt	= one million watts.

Textual Amendments

- F1** Words in Sch. 1 Pt. 7 substituted (13.6.2020) by [The Weights and Measures Act 1985 \(Amendment\) and Units of Measurement Regulations 1986 \(Amendment\) Regulations 2019 \(S.I. 2019/1211\)](#), regs. 1(b), **2(a)**
- F2** Words in Sch. 1 Pt. 7 inserted (13.6.2020) by [The Weights and Measures Act 1985 \(Amendment\) and Units of Measurement Regulations 1986 \(Amendment\) Regulations 2019 \(S.I. 2019/1211\)](#), regs. 1(b), **2(b)**

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