

Table (1)

Maximum Permissible Error for Ambient Air Quality Measuring Instruments

#	Type of measuring instrument Instruments (sensors)	Maximum Permissible Error MPE (Maximum Permissible Errors)
1	Lighting	±10Lux
2	Noise	±10 Db
3	Thermometer	±0.5°C
4	Relative Humidity	±5%
5	Wind speed	±1.2 m/s
6	Wind direction	±5°
7	Air pressure	±50 pa

Table (2)

Maximum Permissible Error Limits for Sensors Measuring Air Quality and Environmental Pollutants for Specific Elements of Industrial Establishments

Air quality analysers Permissible error				
#	Pollutants Gas Monitored	Symbol Abbreviation	Zero level permissible error Zero level permissible error	Working range Permissible error (During operation) Working range Permissible error (During operation)
1	Sulfur dioxide	SO ₂	$\pm 3 \times 10^{-9}$	$\pm 10\%$
2	Hydrogen Sulfide	H ₂ S	$\pm 3 \times 10^{-9}$	$\pm 10\%$
3	Nitrogen Oxides	NO _x	$\pm 3 \times 10^{-9}$	$\pm 10\%$
4	Carbon Monoxide	CO	$\pm 0.2 \times 10^{-6}$	$\pm 10\%$
5	Carbon Dioxide	CO ₂	$\pm 4 \times 10^{-6}$	$\pm 10\%$
6	Ozone	O ₃	$\pm 3 \times 10^{-9}$	$\pm 10\%$
7	Hydrocarbon	HC	$\pm 0.2 \times 10^{-6}$	$\pm 10\%$
8	Methane	CH ₄	$\pm 0.2 \times 10^{-6}$	$\pm 10\%$
9	Benzene, Toluene, Ethylbenzene and Xylene	BTEX	$\pm 1 \times 10^{-9}$	$\pm 10\%$

Table No. (3)

Maximum Permissible Error Limits for Sensors Measuring Air Quality and Environmental Pollutants for Specific Elements for Non-Industrial Establishments and Workplaces

Instrument/ Sensors	MPE
Volatile organic compounds (VOC)	±5%
CO ₂	±5%
CO	±5%
CH ₂ O	±5%
O ₃	±5%
NO ₂	±5%
PM _{2.5} , PM ₁₀ , TSP	±5%
T	±0.3°C
RH%	±5%