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IC sensor tag application to Ambient network practices

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Among all information and communication technologies (ICTs), IC sensors have increasingly been anticipated from the viewpoints of convenience for widespread use and cost savings. Furthermore, IC sensor miniaturization has recently hastened development of micro-electromechanical systems (MEMS) technology and has reduced their costs. Consequently, large-scale sensor networks can be built for monitoring environment of the earth. We call this network an "Ambient Network". Using this newly developed network with IC sensors, attempts have been made to measure atmospheric CO₂ concentrations over wide areas and to measure traffic-induced vibration characteristics of ground and earth structures .

Keywords: IC sensor tag, CO₂, Ambient network